

# Sponsored Programs Expenditure Report

For the period July 1, 2022 - April 30, 2023



| <u>Investigator</u>                | <u>Sponsor Name</u>  | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|------------------------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| <b>020 Acad Affairs Prov VP</b>    |  |   |                                   |                              |                           |                       |
| Aguilar, Ms. Lorena                | International Union for Conservation of Nature and Natural Resources | Advancing Gender in Enviroment  | 100                               | \$6,370                      | \$892                     | \$7,262               |
| Fegley, Dr. Megan Elizabeth Audrey | University of Georgia  | Momentary Assessment of Research Learning Enviroments   | 100                               | \$256                        | \$128                     | \$384                 |
| Imbruce, Dr. Valerie               | Arnold and Mabel Beckman Foundation                                  | Beckman Scholars Program 2022   | 100                               | \$14,510                     | \$0                       | \$14,510              |
| Imbruce, Dr. Valerie               | Arnold and Mabel Beckman Foundation                                  | Beckman Scholars Program 2022   | 100                               | \$17,985                     | \$0                       | \$17,985              |
| Imbruce, Dr. Valerie               | National Endowment for the Humanities                                | Situating Chemical Elements in the Human World to Innovate Undergraduate Education                                    | 50                                | \$5,690                      | \$3,243                   | \$8,933               |
| Imbruce, Dr. Valerie               | National Science Foundation  | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials                         | 20                                | \$38,266                     | \$7,391                   | \$45,657              |
| Imbruce, Dr. Valerie               | National Science Foundation  | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials                         | 20                                | \$49,129                     | \$0                       | \$49,129              |
| Imbruce, Dr. Valerie               | US Department of Education   | Ronald E. McNair Post-Baccalaureate Achievement 2017-2022   | 100                               | \$225,030                    | \$7,957                   | \$232,987             |
| Light, Dr. Caitlin J.              | National Science Foundation  | REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure | 90                                | \$326                        | \$186                     | \$512                 |
| Light, Dr. Caitlin J.              | National Science Foundation  | REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure | 90                                | \$24,464                     | \$0                       | \$24,464              |

| <u>Investigator</u>      | <u>Sponsor Name</u>              | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|----------------------------------|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Loewen, Mr. Donald J     | Multiple Sponsors - Nonsponsored | GROK Global Services   | 100                               | \$221,882                    | \$0                       | \$221,882             |
| Ortiz, Stephen           | US Department of Education       | Ronald E. McNair Post-Baccalaureate Achievement 2022-2027  | 100                               | \$618                        | \$0                       | \$618                 |
| Ortiz, Stephen           | US Department of Education       | Ronald E. McNair Post-Baccalaureate Achievement 2022-2027  | 100                               | \$102,150                    | \$8,172                   | \$110,322             |
| Pitarresi, Dr. James     | National Science Foundation      | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials  | 20                                | \$38,266                     | \$7,391                   | \$45,657              |
| Pitarresi, Dr. James     | National Science Foundation      | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials  | 20                                | \$49,129                     | \$0                       | \$49,129              |
| Withers, Ms. Michelle D  | National Science Foundation      | RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices   | 100                               | \$20,322                     | \$0                       | \$20,322              |
| Withers, Ms. Michelle D  | National Science Foundation      | Facilitating Widespread Implementation of Teaching Strategies Known to Promote Student Success throughout a State System of Colleges | 100                               | \$66,246                     | \$37,760                  | \$104,006             |
| Withers, Ms. Michelle D  | National Science Foundation      | RCN-UBE: Networking STEM initiatives to enhance (NSITE) adoption of Evidence-Based Practices   | 100                               | \$65,315                     | \$37,230                  | \$102,545             |
| <b>Department Total:</b> |                                  |  |                                   | <b>\$1,056,303</b>           |                           |                       |

**020 Anthropology**

|                            |   |  |     |          |         |          |
|----------------------------|---|--|-----|----------|---------|----------|
| Digangi, Dr. Elizabeth Ann | US Department of Justice                        | A Virtual Anthropological Approach to the Study of Commingled Human Remains                                | 100 | \$20,828 | \$593   | \$21,421 |
| Lipo, Dr. Carl             | International Archaeological Research Institute | DPAA Terrestrial Investigation Mission 22- 1GU, Activity #75 Bundschu Ridge, Asan-Maina Municipality, Guam | 100 | \$13,988 | \$3,637 | \$17,625 |
| Lipo, Dr. Carl             | National Science Foundation                     | Climate Change Impacts on the Past and Future Coastal Freshwater Resources of Oceanic Islands              | 100 | \$9,266  | \$2,409 | \$11,675 |

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|----------------------------|-----------------------------|--|--|-------------------------------------|----------------------------------|------------------------------|
| McGuire, Dr. Randy         | National Science Foundation | Doctoral Dissertation Improvement Award: Emergence of Settlement Patterns                                | 100                                      | \$999                               | \$259                            | \$1,258                      |
| McGuire, Dr. Randy         | National Science Foundation | Doctoral Dissertation Research Award: The Role of Material Culture in Reconstructing Social Connectivity | 100                                      | \$3,700                             | \$962                            | \$4,661                      |
| Merriwether, Dr. David A   | Alpaca Research Foundation  | Candidate Gene Sequencing for Choanal Atresia in Camelids  | 100                                      | \$139                               | \$0                              | \$139                        |
| Sanger, Dr. Matthew        | National Science Foundation | Collaborative Research: Examination of Sites on the Georgia Bight Coastline                              | 100                                      | \$5,042                             | \$1,311                          | \$6,353                      |
| Van Dyke, Dr. Ruth         | National Park Service       | Condition Assessment and Emergency Treatment of Managed Archaeological Sites on Chacra Mesa              | 100                                      | \$7,448                             | \$1,303                          | \$8,751                      |
| Wander, Dr. Katherine      | National Science Foundation | Collaborative Research: The Anthropology of Demographic Transition and Livelihood Diversification        | 100                                      | \$3,600                             | \$936                            | \$4,536                      |
| Wander, Dr. Katherine      | National Science Foundation | RAPID: Evolutionary Nutritional Adaptations and COVID-19 Risk Among Healthcare Workers                   | 100                                      | \$18,351                            | \$3,213                          | \$21,564                     |
| Wander, Dr. Katherine      | National Science Foundation | Human adaption in high-pathogen enviroments: iron, infection, and child growth and development           | 100                                      | \$8,987                             | \$0                              | \$8,987                      |
| Wander, Dr. Katherine      | National Science Foundation | Human adaption in high-pathogen enviroments: iron, infection, and child growth and development           | 100                                      | \$96,433                            | \$16,094                         | \$112,527                    |

***Department Total: \$219,497***

***020 Art History***

|                   |                                       |  |     |           |          |           |
|-------------------|---------------------------------------|--|-----|-----------|----------|-----------|
| Smart, Dr. Pamela | National Endowment for the Humanities | Situating Chemical Elements in the Human World to Innovate Undergraduate Education | 50  | \$5,690   | \$3,243  | \$8,933   |
| Smart, Dr. Pamela | Getty Foundation                      | Indian Ocean Exchanges   | 100 | \$124,643 | \$12,272 | \$136,915 |

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|---------------------|---------------------|--------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|
|---------------------|---------------------|--------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|

**Department Total: \$145,848**

**020 Arts and Sciences Dean**

|                       |                                     |  |     |          |          |          |
|-----------------------|-------------------------------------|--|-----|----------|----------|----------|
| Cho, Dr. Sungdai      | Cornell University                  | Cho Unrestricted Research Support Via Cornell  | 100 | \$6,882  | \$688    | \$7,570  |
| Holahan, Dr. Robert A | National Science Foundation         | Collaborative Research: Technological Shocks and Institutional Effectiveness under Heterogeneous Risk            | 100 | \$24,762 | \$14,115 | \$38,877 |
| Homsy, Dr. George C   | Cary Institute of Ecosystem Studies | An Evaluation of Stakeholder Engagement in the Rondout and Neversink Watersheds RNSP-2021-01-001                 | 100 | \$615    | \$123    | \$738    |
| Massey, Dr. Sean      | NYS Department of Health            | Health & Human Services for Lesbian, Gay, Bisexual, and Transgender Individuals, Families, & Communities         | 100 | \$7,500  | \$1,125  | \$8,625  |
| Mixer, Dr. David      | Archaeological Institute of America | Dating Changes in Preclassic Maya Monumental Architectural Styles at Actuncan, Belize                            | 100 | \$10,173 | \$0      | \$10,173 |
| Wang, Dr. Yuxin       | Rochester Institute of Technology   | NYSP21-2022 R&D: Develop effective thermal practice and adsorption method to eliminate perfluorinated substances | 60  | \$6,328  | \$1,930  | \$8,258  |

**Department Total: \$74,242**

**020 Asian Asian-American Studies**

|                  |                           |  |     |         |       |         |
|------------------|---------------------------|--|-----|---------|-------|---------|
| Cho, Dr. Sungdai | Academy of Korean Studies | Reinforcing the Status of Korean as a World Language: Theoretical and Applied Korean Linguistics | 100 | \$2,732 | \$273 | \$3,005 |
|------------------|---------------------------|--|-----|---------|-------|---------|

**Department Total: \$3,005**

**020 Binghamton Foundation**

|                     |                                  |   |     |          |         |          |
|---------------------|----------------------------------|---|-----|----------|---------|----------|
| Benner, Ms. Rebecca | Foundation of SUNY at Binghamton | Fellowship Program on Behalf of the BU Foundation/Graduate School | 100 | \$65,100 | \$9,765 | \$74,865 |
|---------------------|----------------------------------|---|-----|----------|---------|----------|

**Department Total: \$74,865**

**020 Biological Sciences**

| <u>Investigator</u>     | <u>Sponsor Name</u>                                | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|-------------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Cook, Dr. Laura         | National Institute of Allergy & Infectious Disease | Transcriptomic and Genetic Differences of Group A Streptococcus in Humans: Acute Infection Versus Carriage   | 100                               | \$50,082                     | \$28,104                  | \$78,186              |
| Cook, Dr. Laura         | National Institute of Allergy & Infectious Disease | The Characterization of Streptococcus agalactiae Novel Protein, Sak_1753 in the Colonization of the Vaginal Tract                                    | 100                               | \$28,568                     | \$0                       | \$28,568              |
| Davies, Dr. David       | National Science Foundation                        | Collaborative Research: GCR: Infection-Resisting Resorbable Scaffolds for Engineering Human Tissue   | 33                                | \$312                        | \$178                     | \$491                 |
| Fiumera, Dr. Anthony    | National Institute of General Medical Sciences     | Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet                              | 22.5                              | \$367                        | \$209                     | \$576                 |
| Marques, Dr. Claudia    | National Science Foundation                        | Collaborative Research: GCR: Infection-Resisting Resorbable Scaffolds for Engineering Human Tissue   | 33                                | \$312                        | \$178                     | \$491                 |
| Marques, Dr. Claudia    | National Inst of Environmental Health Sciences     | Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure   | 50                                | \$78,270                     | \$31,553                  | \$109,823             |
| McKenney, Dr. Peter     | National Institute of Allergy & Infectious Disease | Context-specific modulation of Clostridioides difficile virulence by Vancomycin-resistant Enterococcus faecium                                       | 100                               | \$15,600                     | \$8,623                   | \$24,223              |
| Meindl, Dr. Jessica Hua | National Science Foundation                        | Collaborative Research: Disease ecology in the midst of anthropogenic stressors: Exploring the influence of pesticides on host-parasite interactions | 100                               | \$22,083                     | \$12,587                  | \$34,670              |
| Meindl, Dr. Jessica Hua | National Science Foundation                        | Collaborative Research: Disease ecology in the midst of anthropogenic stressors: Exploring the influence of pesticides on host-parasite interactions | 100                               | \$10,000                     | \$0                       | \$10,000              |
| Meindl, Dr. Jessica Hua | National Science Foundation                        | CAREER: Evolutionary Disease Ecology- Can evolutionary responses to environmental change modify the biodiversity-disease relationship?               | 100                               | \$17,749                     | \$2,907                   | \$20,656              |
| Musselman, Dr. Laura    | National Institute of General Medical Sciences     | Laboratory Selection for Drosophila Melanogaster Genetic Variants that Confer Increased Survival on a Diabetogenic Diet                              | 77.5                              | \$1,265                      | \$721                     | \$1,986               |

| <u>Investigator</u>      | <u>Sponsor Name</u>                                | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Powell, Mr. Thomas       | University of Florida                              | Dimensions: Collaborative Research: Time After Time: Adaptive Seasonal Timing Drives the Sequential Origin of Community- U of F Project: P0016611 | 100                               | \$23,658                     | \$13,485                  | \$37,144              |
| Prior, Dr. Kirsten       | National Science Foundation                        | EAGER: Uncovering the Role of Altered Cryptic Interactions in Driving the Demographic Success of a Range-Expanding Species                        | 100                               | \$36,793                     | \$9,473                   | \$46,265              |
| Sauer, Dr. Karin         | Syracuse University                                | Planning Grant: Engineering Research Center for Innovative Materials and Processes for Antimicrobial Control Technologies (IMPACT)                | 100                               | \$382                        | \$218                     | \$600                 |
| Sauer, Dr. Karin         | National Institute of Allergy & Infectious Disease | Dispersion and the Biofilm Matrix of Pseudomonas aeruginosa   | 100                               | \$322,111                    | \$106,351                 | \$428,462             |
| Sauer, Dr. Karin         | National Science Foundation                        | REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure                             | 10                                | \$36                         | \$21                      | \$57                  |
| Sauer, Dr. Karin         | National Science Foundation                        | REU Site: Early Collaborative Research Experience In Microbial Biofilm Development, Resistance, & Community Structure                             | 10                                | \$2,718                      | \$0                       | \$2,718               |
| Sauer, Dr. Karin         | National Science Foundation                        | Collaborative Research: GCR: Infection-Resisting Resorbable Scaffolds for Engineering Human Tissue  | 34                                | \$322                        | \$184                     | \$505                 |
| Schertzer, Dr. Jeffrey W | National Institute of Allergy & Infectious Disease | Pathogen Synergy Through Cross-Species Induction of Outer Membrane Vesicle Biogenesis   | 100                               | \$78,945                     | \$33,333                  | \$112,277             |
| Schertzer, Dr. Jeffrey W | National Institute of General Medical Sciences     | Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species                                    | 50                                | \$39,074                     | \$19,739                  | \$58,812              |
| Sobel, Dr. James         | National Science Foundation                        | Collaborative Research: ROL: Rapid Evolution of Reproductive Isolation via Hybrid Seed Lethality in Mimulus                                       | 100                               | \$14,418                     | \$8,218                   | \$22,636              |
| Stamp, Dr. Nancy E       | Howard Hughes Medical Institute                    | Howard Hughes Support - Freshman Research Immersion (FRI) Models  | 50                                | \$887                        | \$0                       | \$887                 |
| <b>Department Total:</b> |  |   |                                   | <b>\$1,020,034</b>           |                           |                       |

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|----------------------------|--|---|--|-------------------------------------|----------------------------------|------------------------------|
| German, Dr. Guy K          | Estee Lauder Corporation                           | Development of cosmetically acceptable and gentle materials/ methods that impact the machanics of epidermis                 | 60                                       | \$14,453                            | \$8,238                          | \$22,691                     |
| German, Dr. Guy K          | National Science Foundation                        | CAREER: Understanding the Multi-Scale Failure Mechanics of Human Skin with Age, Ultraviolet Photodamage and Bacteria Growth | 100                                      | \$5,020                             | \$2,861                          | \$7,881                      |
| Hookway, Dr. Tracy         | American Heart Association Incorporated            | Modeling cardiac fibrosis: a 3D co-culture of cardiomyocytes, cardiac fibroblasts, and extracellular matrix components      | 100                                      | \$24,173                            | \$0                              | \$24,173                     |
| Hookway, Dr. Tracy         | National Heart Lung and Blood Institute            | Heterotypic impacts on epicardial cells on engineered cardiac microtissue function  | 100                                      | \$59,203                            | \$32,648                         | \$91,850                     |
| Hookway, Dr. Tracy         | National Science Foundation                        | CAREER: Engineering Autonomic Control of Cardiac Tissues  | 100                                      | \$6,840                             | \$3,899                          | \$10,739                     |
| Jin, Dr. Sha               | National Inst of Biomedical Imaging and Bioenginee | Generation of Islet Organoids in Oxygenated Scaffolds   | 75                                       | \$58,665                            | \$32,615                         | \$91,280                     |
| Jin, Dr. Sha               | National Science Foundation                        | Molecular mechanisms of tissue specific signaling for islet self-assembly   | 80                                       | \$27,430                            | \$14,757                         | \$42,187                     |
| Jin, Dr. Sha               | National Science Foundation                        | Molecular mechanisms of tissue specific signaling for islet self-assembly   | 100                                      | \$12,000                            | \$0                              | \$12,000                     |
| Jin, Dr. Sha               | Rochester Institute of Technology                  | NYSP21-2022 R&D: Reducing Food Waste by Converting it into Eco-Friendly Biodegradable Plastics                              | 50                                       | \$6,834                             | \$2,084                          | \$8,918                      |
| Koh, Dr. Ahyeon            | National Science Foundation                        | Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins                               | 40                                       | \$16,966                            | \$8,302                          | \$25,268                     |
| Koh, Dr. Ahyeon            | Sete Digital LTDA                                  | Apolo Project   | 100                                      | \$2,311                             | \$1,318                          | \$3,629                      |
| Koh, Dr. Ahyeon            | National Science Foundation                        | I-Corps: Self-adhesive, nanofibrous, silicone elastomer to replace current adhesive bandages                                | 100                                      | \$11,257                            | \$1,251                          | \$12,508                     |

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|------------------------------|--|--|--|-------------------------------------|----------------------------------|------------------------------|
| Koh, Dr. Ahyeon              | Nano-Bio Materials Consortium                  | Epifluidics for Stress Monitoring  | 45                                       | \$9,527                             | \$5,430                          | \$14,957                     |
| Koh, Dr. Ahyeon              | National Science Foundation                    | Stretchable Papertronics   | 50                                       | \$51,647                            | \$25,872                         | \$77,518                     |
| Li, Dr. Yizeng               | National Science Foundation                    | CAREER: Impacts of Intracellular and Extracellular Hydraulic En.   | 100                                      | \$2,016                             | \$1,149                          | \$3,165                      |
| Lu (Frank), Dr. Fake (Frank) | National Institute of General Medical Sciences | Low-Power Stimulated Raman Time-Lapse Microscope for Tracking Dynamics and Fate of Lipid Droplets in Glioma Cells  | 100                                      | \$51,556                            | \$29,387                         | \$80,943                     |
| Lu, Dr. Fake (Frank)         | Estee Lauder Corporation                       | Development of cosmetically acceptable and gentle materials/ methods that impact the machanics of epidermis  | 40                                       | \$9,635                             | \$5,492                          | \$15,128                     |
| Lu, Dr. Fake (Frank)         | National Institute of General Medical Sciences | Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications  | 25                                       | \$65,935                            | \$25,802                         | \$91,738                     |
| Mahler, Dr. Gretchen J       | National Inst of Environmental Health Sciences | Engineering a Small Intestinal Microbiome To Evaluate Food Additive Exposure   | 50                                       | \$78,270                            | \$31,553                         | \$109,823                    |
| Mahler, Dr. Gretchen J       | National Science Foundation                    | Mechanobiology of Myofibroblast Behavior in Health and Disease   | 25                                       | \$16,897                            | \$9,357                          | \$26,254                     |
| Wan, Dr. Yuan                | National Cancer Institute                      | Liquid biopsy of solitary pulmonary nodule with extracellular vesicles   | 100                                      | \$269,367                           | \$132,491                        | \$401,859                    |
| Wan, Dr. Yuan                | National Cancer Institute                      | Liquid biopsy of solitary pulmonary nodule with extracellular vesicles   | 100                                      | \$10,124                            | \$5,771                          | \$15,895                     |
| Wan, Dr. Yuan                | Carnegie Mellon University                     | Lipid nanoprobe integrated microdevice for extracellular vesicle isolation and duplex sequencing based mutation detection for non-invasive lung cancer diagnosis | 100                                      | \$46,843                            | \$26,701                         | \$73,544                     |
| Ye, Dr. Kaiming              | Johns Hopkins University                       | NIST Professional Research Experience Program (PREP) Partnership   | 100                                      | \$30,843                            | \$6,459                          | \$37,302                     |



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|---------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Ye, Dr. Kaiming     | Rochester Institute of Technology                  | NYSP21-2022 R&D: Reducing Food Waste by Converting it into Eco-Friendly Biodegradable Plastics  | 50                                | \$6,834                      | \$2,084                   | \$8,918               |
| Ye, Dr. Kaiming     | University of Arkansas                             | EAGER: SARS-CoV-2 Pseudovirus via a novel eukaryotic construction in yeast  | 100                               | \$6,792                      | \$3,871                   | \$10,663              |
| Ye, Dr. Kaiming     | National Science Foundation                        | The 2020 Advanced Biomanufacturing Conference   | 100                               | \$12,684                     | \$1,800                   | \$14,483              |
| Ye, Dr. Kaiming     | National Inst of Biomedical Imaging and Bioenginee | Generation of Islet Organoids in Oxygenated Scaffolds   | 25                                | \$19,555                     | \$10,872                  | \$30,427              |
| Ye, Dr. Kaiming     | Johns Hopkins University                           | NIST Professional Research Experience Program (PREP) Partnership  | 100                               | \$85,193                     | \$22,150                  | \$107,343             |
| Ye, Dr. Kaiming     | National Institute of Dental & Craniofacial Res    | Development of a Smartphone based infrared fluorescenceimaging intraoral device (SMART-IR-ID) for dentist- guided realtime self-monitoring of periodontal disease | 100                               | \$38,235                     | \$21,794                  | \$60,028              |
| Ye, Dr. Kaiming     | National Science Foundation                        | Molecular mechanisms of tissue specific signaling for islet self-assembly   | 20                                | \$6,857                      | \$3,689                   | \$10,547              |

**Department Total: \$1,543,658**

**020 CCPA Deans Office**

|                        |   |  |     |           |          |           |
|------------------------|---|--|-----|-----------|----------|-----------|
| Bronstein, Dr. Laura R | NYS Education Department                        | Nita M. Lowey 21st Century Community Learning Centers Technical Assistance Resource Center | 100 | \$145,103 | \$37,536 | \$182,639 |
| Bronstein, Dr. Laura R | University of Pennsylvania                      | Netter Center Regional Training Center Award, Year Three of Three 2022-2023                | 50  | \$23,808  | \$0      | \$23,808  |
| Bronstein, Dr. Laura R | University of Massachusetts Chan Medical School | Helping Youth on the Path to Employment (HYPE) Creating Economic Self Sufficiency Year 2   | 50  | \$582     | \$151    | \$733     |
| Bronstein, Dr. Laura R | NYS Education Department                        | Nita M. Lowey 21st Century Community Learning Centers Technical Assistance Resource Center | 100 | \$109,419 | \$26,196 | \$135,615 |

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|----------------------------|---|---|--|-------------------------------------|----------------------------------|------------------------------|
| Bronstein, Dr. Laura R     | NYS Education Department                  | Community Schools Regional Technical Assistance Center (TAC)- CARES Act Funding                               | 100                                      | \$40,000                            | \$0                              | \$40,000                     |
| Bronstein, Dr. Laura R     | NYS Education Department                  | Community Schools Regional Technical Assistance Center (TAC)  | 100                                      | \$152,491                           | \$29,996                         | \$182,486                    |
| Bronstein, Dr. Laura R     | NYS Education Department                  | Community Schools Regional Technical Assistance Center (TAC)  | 100                                      | \$55,417                            | \$1,149                          | \$56,565                     |
| Bronstein, Dr. Laura R     | Multiple Sponsors                         | CCPA Miscellaneous Income   | 100                                      | \$184,125                           | \$27,619                         | \$211,744                    |
| Bronstein, Dr. Laura R     | Multiple Sponsors                         | Continuing Education Activities   | 100                                      | \$3,322                             | \$498                            | \$3,820                      |
| Bronstein, Dr. Laura R     | Broome County Department of Mental Health | CA 7-340 Renewal- Mental Health Schools Project Coordinator 2022  | 100                                      | \$48,200                            | \$7,230                          | \$55,430                     |
| Bronstein, Dr. Laura R     | NYS Education Department                  | Community Schools Regional Technical Assistance Center (TAC)- CARES Act Funding                               | 100                                      | \$204,566                           | \$38,679                         | \$243,246                    |
| Bronstein, Dr. Laura R     | University of Pennsylvania                | Netter Center Regional Training Center Award, Year Two of Three 2021-2022                                     | 50                                       | \$3,216                             | \$0                              | \$3,216                      |
| Kida, Ms. LuAnn F          | National Science Foundation               | Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology   | 25                                       | \$12,343                            | \$3,128                          | \$15,471                     |
| Kida, Ms. LuAnn F          | US Department of Education                | Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative | 30                                       | \$31,303                            | \$28                             | \$31,330                     |
| Kida, Ms. LuAnn F          | US Department of Education                | Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative | 30                                       | \$74,971                            | (\$827)                          | \$74,145                     |
| Kida, Ms. LuAnn F          | University of Pennsylvania                | Netter Center Regional Training Center Award, Year Three of Three 2022-2023                                   | 50                                       | \$23,808                            | \$0                              | \$23,808                     |

| <u>Investigator</u> | <u>Sponsor Name</u>                 | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|-------------------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Kida, Ms. LuAnn F   | United Way of Broome County Inc     | Binghamton University Community Schools: UACS Literacy Project: Strengthening Early Literacy and Family Engagement Using a University-Assisted Community Schools Approach | 100                               | \$102                        | \$26                      | \$128                 |
| Kida, Ms. LuAnn F   | Conrad and Virginia Klee Foundation | Promise Zone to Pilot an Early Childhood Program within BU Community Schools at the Harpursville Central School District  | 100                               | \$12,283                     | \$0                       | \$12,283              |
| Kida, Ms. LuAnn F   | University of Pennsylvania          | Netter Center Regional Training Center Award, Year Two of Three 2021-2022   | 50                                | \$3,216                      | \$0                       | \$3,216               |

**Department Total: \$1,299,682**

**020 CCPA Human Development**

|                 |                     |   |     |          |          |          |
|-----------------|---------------------|---|-----|----------|----------|----------|
| Wilton, Dr. Leo | New York University | Advancing Knowledge on Factors that Promote or Impede Engagement Along the HIV Care Continuum Over Time: A Longitudinal Mixed Methods Study of Black and Latinx Youth/ Emerging Adults Living with HIV: 2022-2023 | 100 | \$34,546 | \$19,691 | \$54,237 |
|-----------------|---------------------|---|-----|----------|----------|----------|

**Department Total: \$54,237**

**020 CCPA Social Work**

|                          |                                  |  |     |         |     |         |
|--------------------------|----------------------------------|--|-----|---------|-----|---------|
| McGinley, Dr. Jacqueline | Borchard Center on Law and Aging | How We Die Alone: A Content Analysis of Facility Visitation Policies During the Pandemic | 100 | \$4,972 | \$0 | \$4,972 |
|--------------------------|----------------------------------|--|-----|---------|-----|---------|

**Department Total: \$4,972**

**020 CCPA Teaching Learning Educ Leadership**

|                      |                          |  |     |           |          |           |
|----------------------|--------------------------|--|-----|-----------|----------|-----------|
| Humphrey, Ms. Amy L. | NYS Education Department | Liberty Partnership Program 2021-2022  | 100 | \$191,105 | \$15,288 | \$206,394 |
| Humphrey, Ms. Amy L. | NYS Education Department | Liberty Partnerships Program 2022-2023 | 100 | \$320,306 | \$25,625 | \$345,931 |

| <u>Investigator</u>      | <u>Sponsor Name</u>                                | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Humphrey, Ms. Amy L.     | Mothers and Babies Perinatal Network of South Cent | Mothers & Babies PREP Summer Youth Development Program 2022  | 100                               | \$14,679                     | \$1,468                   | \$16,147              |
| Humphrey, Ms. Amy L.     | Multiple Sponsors                                  | Income Account for Liberty Partnership Activities  | 100                               | \$231,648                    | \$18,532                  | \$250,180             |
| Kim, Dr. HoeKyeung       | Academy of Korean Studies                          | A Study on Korean Bridging Inferences Marked by Korean Demonstrative 'ku'  | 100                               | \$18,599                     | \$0                       | \$18,599              |
| Malin, Dr. Jo E.         | US Department of Education                         | Talent Search Program 2021-2026  | 100                               | \$291,378                    | \$23,310                  | \$314,688             |
| Mellin, Dr. Elizabeth    | US Department of Education                         | Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative  | 70                                | \$174,933                    | (\$1,929)                 | \$173,004             |
| Mellin, Dr. Elizabeth    | US Department of Education                         | Binghamton University Community Schools PLACE (Partnerships for Learning and Community Engagement) Initiative  | 70                                | \$73,039                     | \$65                      | \$73,104              |
| Simpson, Dr. Amber       | National Science Foundation                        | Collabarative Research: Engineering a Community Family Partnership: Developing a Program Aimed at Making & Design Practices in Home Enviroments                        | 100                               | \$47,469                     | \$21,267                  | \$68,736              |
| Simpson, Dr. Amber       | National Science Foundation                        | Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology  | 25                                | \$12,343                     | \$3,128                   | \$15,471              |
| Simpson, Dr. Amber       | National Science Foundation                        | Collaborative Research: The Notion of Failure and Maker Programming for Youth: Supporting the Professional Development, Reflection, and Learning of Informal Educators | 100                               | \$202,850                    | \$106,592                 | \$309,441             |
| Simpson, Dr. Amber       | National Security Agency                           | 2022 GenCyber Grant Program- State University of New York at Binghamton  | 25                                | \$758                        | \$379                     | \$1,137               |
| <b>Department Total:</b> |  |  |                                   | <b>\$1,792,832</b>           |                           |                       |

**020 Chemistry**

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                         | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|--|--|--|-------------------------------------|----------------------------------|------------------------------|
| Bane Tuttle, Dr. Susan B   | National Cancer Institute                          | Coupling through Boron: Fast, Tunable, and Versatile Bioorthogonal Reactions Producing Boron-Containing Heterocycles                             | 100                                      | \$21,874                            | \$12,468                         | \$34,342                     |
| Callahan, Dr. Brian P      | SUNY System Administration                         | Research Seed Grant Program  | 100                                      | \$3,308                             | \$0                              | \$3,308                      |
| Callahan, Dr. Brian P      | National Institute of Allergy & Infectious Disease | Rapid SARS-CoV-2 Detection Using Amplicon Templated Reported Enzyme Assembly   | 100                                      | \$48,276                            | \$26,968                         | \$75,244                     |
| Callahan, Dr. Brian P      | Rensselaer Polytechnic Institute                   | Structural Mechanisms of Hedgehog Autoprocessing in Physiology and Disease PTE 1R01CA206592-01-A1 - Subaward A12815                              | 100                                      | \$168                               | \$93                             | \$261                        |
| Chernova, Ms. Natalya A.   | National Science Foundation                        | MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscop (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU) | 10                                       | \$7,040                             | \$0                              | \$7,040                      |
| Dimitrov, Mr. Nikolay      | Purdue University                                  | Dimitrov 2020 SRC CHIRP: Fine Pitch Cu-Sn Based Interconnection Below Temperatures of 180oC  | 100                                      | \$15,457                            | \$8,811                          | \$24,268                     |
| Fang, Dr. Jiye             | Cornell University                                 | Development of Advanced ORR/ HOR Nano-Electrocatalysts in Alkaline Media Federal Award no DE-SC0019445   | 100                                      | \$17,123                            | \$5,146                          | \$22,269                     |
| Fang, Dr. Jiye             | National Science Foundation                        | Manipulating and Exploiting Lattice Strain as a Novel Platform to Tune the Surface Work Function of Mtallic Nanocatalysts                        | 100                                      | \$38,570                            | \$21,985                         | \$60,555                     |
| Goyal, Dr. Puja            | National Institute of General Medical Sciences     | Towards Rational Design of the Photocontrol of Calmodulin-Protein Interactions   | 100                                      | \$23,160                            | \$13,201                         | \$36,361                     |
| Goyal, Dr. Puja            | National Institute of General Medical Sciences     | Regulation of bidirectional transport of the nucleus by adapter proteins   | 5  | \$11,473                            | \$4,122                          | \$15,596                     |
| Grewer, Dr. Christof       | Mount Sinai School of Medicine                     | Substrate Specificity Determinants in Nutrient Solute Carrier Transporters: Amendment 3  | 100                                      | \$49,977                            | \$27,389                         | \$77,367                     |
| Grewer, Dr. Christof       | National Institute of General Medical Sciences     | How to combat Glutamate Release by Reverse Transport: Mechanistic Studies and Development of Selective Efflux Inhibitors                         | 100                                      | \$44,723                            | \$24,394                         | \$69,118                     |

| <u>Investigator</u>       | <u>Sponsor Name</u>                                | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Hirschi, Dr. Jennifer Sue | National Institute of General Medical Sciences     | Mechanistic Investigation into Photoredox Catalysis  | 100                               | \$148,317                    | \$62,517                  | \$210,834             |
| Hirschi, Dr. Jennifer Sue | National Institute of General Medical Sciences     | Mechanistic Investigation into Modern Catalytic Reactions  | 100                               | \$57,206                     | \$31,790                  | \$88,995              |
| Liu, Dr. Hao              | Rochester Institute of Technology                  | NYSP21-2022 R&D: Develop effective thermal practice and adsorption method to eliminate perfluorinated substances               | 40                                | \$4,219                      | \$1,287                   | \$5,506               |
| Liu, Dr. Hao              | American Chemical Society                          | Understanding the Structural and Electronic Effects on Heterogeneous Catalysis of Aerobic Oxidative Desulfurization            | 100                               | \$28,058                     | \$0                       | \$28,058              |
| Liu, Dr. Hao              | National Science Foundation                        | Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries   | 34                                | \$24,737                     | \$13,354                  | \$38,090              |
| Liu, Dr. Hao              | National Science Foundation                        | CAREER: Enabling High-performance Na-ion Battery Cathodes Via Structural Pillaring   | 100                               | \$43,341                     | \$23,607                  | \$66,948              |
| Panetier, Dr. Julien      | Yale University                                    | Nitrogen-Coupled Carbon Dioxide Conversion to Methylamine: Molecular Level Understanding and Tailoring of the Electrocatalysis | 100                               | \$25,337                     | \$13,905                  | \$39,241              |
| Panetier, Dr. Julien      | National Institute of General Medical Sciences     | Computational Modeling of Carbon Monoxide Dehydrogenase Model Systems for Carbon Dioxide Fixation                              | 100                               | \$25,783                     | \$14,147                  | \$39,931              |
| Qiang, Dr. Wei            | National Institute of General Medical Sciences     | Molecular mechanisms of membrane disruption induced by early-stage aggregation of beta-amyloid peptides                        | 100                               | \$99,927                     | \$56,422                  | \$156,349             |
| Rozners, Dr. Eriks        | Binghamton City School District                    | Go Green Institute   | 100                               | \$20,066                     | \$7,625                   | \$27,690              |
| Rozners, Dr. Eriks        | National Institute of Allergy & Infectious Disease | Targeting SARS-CoV-2 RNA Pseudoknots Using Triplex-Forming Peptide Nucleic Acids   | 100                               | \$115,762                    | \$58,716                  | \$174,478             |
| Rozners, Dr. Eriks        | National Institute of General Medical Sciences     | Chemical approaches to control the function of regulatory RNAs   | 100                               | \$231,123                    | \$131,191                 | \$362,313             |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                     | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|--|--|--|-------------------------------------|----------------------------------|------------------------------|
| Rozners, Dr. Eriks         | National Institute of General Medical Sciences | Chemical approaches to control the function of regulatory RNAs   | 100                                      | \$96,872                            | \$0                              | \$96,872                     |
| Rozners, Dr. Eriks         | National Science Foundation                    | Collaborative Research: Nucleobase-Modified PNA for Sequence Selective Triple-Helical Recognition of Non-Coding RNA  | 100                                      | \$94,171                            | \$49,025                         | \$143,196                    |
| Solmaz, Ms. Sozanne        | National Institute of General Medical Sciences | Regulation of bidirectional transport of the nucleus by adapter proteins   | 95                                       | \$217,992                           | \$78,326                         | \$296,318                    |
| Swierk, Dr. John           | National Science Foundation                    | CAREER:CAS: Mechanistic Investigation of Photoredox Reactions  | 100                                      | \$74,642                            | \$41,740                         | \$116,382                    |
| Swierk, Dr. John           | American Chemical Society                      | Photochemical Oxidation of Refractory Sulfur Compounds for Fuel Desulfurization  | 100                                      | \$43                                | \$0                              | \$43                         |
| Swierk, Dr. John           | National Institute of General Medical Sciences | Photochemical transformations of multicomponent aggregates containing photolabile small molecules, heavy metal ions, and/or nanoparticles in biological environments | 100                                      | \$91,014                            | \$51,341                         | \$142,355                    |
| Vetticatt, Dr. Mathew      | National Institute of General Medical Sciences | Mechanistic Studies at the Frontiers of Catalysis  | 100                                      | \$121,527                           | \$62,858                         | \$184,385                    |
| Vetticatt, Dr. Mathew      | National Institutes of Health                  | Novel Concepts and Mechanistic Probes in Catalysis   | 100                                      | \$128,693                           | \$68,381                         | \$197,073                    |
| Whittingham, Dr. M Stanley | National Science Foundation                    | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials  | 20                                       | \$49,129                            | \$0                              | \$49,129                     |
| Whittingham, Dr. M Stanley | Pacific Northwest National Laboratory          | Battery 500: Controlling Electrochemical Reactions from Electrodes to Cells Work performed at Binghamton University, Binghamton, New York, USA                       | 100                                      | \$197,236                           | \$112,363                        | \$309,599                    |
| Whittingham, Dr. M Stanley | University of Maryland                         | FFATA: Advancing Transformational Army Batteries, II   | 100                                      | \$191,289                           | \$55,170                         | \$246,459                    |

| <u>Investigator</u>        | <u>Sponsor Name</u>                           | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Whittingham, Dr. M Stanley | NYS Energy Research and Development Authority | Agreement 154461: empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier  | 50                                | \$84,627                     | \$48,238                  | \$132,865             |
| Whittingham, Dr. M Stanley | National Science Foundation                   | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials                                       | 20                                | \$38,266                     | \$7,391                   | \$45,657              |
| Whittingham, Dr. M Stanley | LG Energy Solutions                           | A Cobalt and Nickel Free High Energy Density Intercalation Cathode for Lithium or Lithium-ion Batteries                             | 100                               | \$32,314                     | \$18,419                  | \$50,733              |
| Whittingham, Dr. M Stanley | DiMien LLC                                    | STTR Phase II: Multi-Electron Intercalation Reactions for High Capacity Lithium Batteries   | 100                               | \$3,870                      | \$2,206                   | \$6,076               |
| Whittingham, Dr. M Stanley | Economic Development Administration           | New Energy New York   | 50                                | \$49,936                     | \$12,983                  | \$62,920              |
| Zhong, Dr. Chuan Jian      | Mecotech Incorporated                         | Unrestricted Research   | 100                               | \$18,480                     | \$2,772                   | \$21,252              |
| Zhong, Dr. Chuan Jian      | National Science Foundation                   | I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting   | 50                                | \$1,921                      | \$213                     | \$2,134               |
| Zhong, Dr. Chuan Jian      | National Science Foundation                   | CAS: Role of Dynamic Surface/ Subsurface Oxygenation of Noble Metal/ 3d-Transition Metal Alloy Nanoparticles in Oxidation Reactions | 100                               | \$94,885                     | \$52,462                  | \$147,347             |
| Zhong, Dr. Chuan Jian      | National Science Foundation                   | CAS: Role of Dynamic Surface/ Subsurface Oxygenation of Noble Metal/ 3d-Transition Metal Alloy Nanoparticles in Oxidation Reactions | 100                               | \$33,773                     | \$0                       | \$33,773              |

**Department Total: \$3,948,730**

**020 Cinema**

|                     |                                       |                      |     |         |     |         |
|---------------------|---------------------------------------|----------------------|-----|---------|-----|---------|
| Jacobs, Dr. Kenneth | National Film Preservation Foundation | Binghamton, My India | 100 | \$2,923 | \$0 | \$2,923 |
|---------------------|---------------------------------------|----------------------|-----|---------|-----|---------|

**Department Total: \$2,923**



| <u>Investigator</u>         | <u>Sponsor Name</u>                              | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|-----------------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| <b>020 Computer Science</b> |  |   |                                   |                              |                           |                       |
| Blackburn, Dr. Jeremy       | National Science Foundation                      | Collaborative Research: SaTC: Core: Small: Detecting Accounts Involved in Influence Campaigns on Social Media           | 100                               | \$37,564                     | \$20,862                  | \$58,426              |
| Blackburn, Dr. Jeremy       | National Science Foundation                      | CAREER: Towards a Data-Driven Understanding of Online Sentiment   | 100                               | \$46,400                     | \$25,350                  | \$71,750              |
| Chiu, Dr. Kenneth           | TOTALEnergies E&P Research & Technology USA, LLC | Performance Measurement, Analysis, and Tuning of Seismic and Machine Learning Workloads                                 | 100                               | \$89,929                     | \$49,064                  | \$138,993             |
| Chiu, Dr. Kenneth           | National Science Foundation                      | Spokes: SMALL: NORTHEAST: Collaborative: Building the Community to Address Data Integration of the Ecological Long Tail | 100                               | \$23,303                     | \$13,283                  | \$36,586              |
| Dai, Dr. Weiyang            | Cornell University                               | Basal forebrain connections to the heart and mind in healthy aging  | 100                               | \$11,459                     | \$6,531                   | \$17,990              |
| Dai, Dr. Weiyang            | National Science Foundation                      | Mechanics of the Formation of Cortical Folding Patterns in the Developing Human Brain                                   | 50                                | \$58,442                     | \$25,793                  | \$84,234              |
| Ghose, Dr. Kanad            | Villanova University                             | I/UCRC Phase 111: Center for Energy Smart Electronic Systems (ES2) Subaward No. 525942SUNY                              | 50                                | \$2,539                      | \$1,447                   | \$3,987               |
| Ghose, Dr. Kanad            | National Science Foundation                      | IUCRC Phase III Binghamton University: Center for Energy-Smart Electronic Systems (ES2)                                 | 50                                | \$3,919                      | \$2,234                   | \$6,154               |
| Ghose, Dr. Kanad            | University of Texas at Arlington                 | I/UCRC Phase III University of TX Arlington: Center for Energy-Smart Electronic System (ES2)                            | 50                                | \$2,539                      | \$1,447                   | \$3,987               |
| Gopalan, Dr. Kartik         | National Science Foundation                      | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce                    | 15                                | \$1,171                      | \$668                     | \$1,839               |
| Gopalan, Dr. Kartik         | National Science Foundation                      | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce                    | 15                                | \$10,170                     | \$5,797                   | \$15,967              |
| Gopalan, Dr. Kartik         | National Science Foundation                      | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce                    | 15                                | \$5,795                      | \$0                       | \$5,795               |

| <u>Investigator</u>          | <u>Sponsor Name</u>         | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|------------------------------|-----------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Govindaraju, Dr. Madhusudhan | Multiple Sponsors           | CS Internationalization Program   | 100                               | \$1,085                      | \$271                     | \$1,356               |
| Kang, Dr. Kyoung-Don         | National Science Foundation | CNS Core: Small: Toward Real-Time Stream Processing in Edge Devices   | 100                               | \$72,898                     | \$40,454                  | \$113,352             |
| Liu, Dr. Yu David            | National Science Foundation | SHF: Small: Lazy Data Structures for Data-Intensive Applications  | 100                               | \$6,298                      | \$3,590                   | \$9,888               |
| Liu, Dr. Yu David            | National Science Foundation | Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models    | 50                                | \$7,317                      | \$0                       | \$7,317               |
| Liu, Dr. Yu David            | National Science Foundation | Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models    | 50                                | \$34,925                     | \$16,487                  | \$51,412              |
| Liu, Dr. Yu David            | National Science Foundation | CRI: CI-New: Collaborative Research: Extensible, Software Enabled Unmanned Aerial Vehicles                        | 100                               | \$18,744                     | \$10,684                  | \$29,427              |
| Liu, Dr. Yu David            | National Science Foundation | CNS Core: Small: Language Runtime Support for Energy- Aware Applications  | 100                               | \$64,087                     | \$31,697                  | \$95,784              |
| Lu, Mr. Hui                  | National Science Foundation | CNS Core: Small: Collaborative: Salvaging Commodity Operating Systems to Support Emerging Networking Technologies | 100                               | \$22,472                     | \$12,809                  | \$35,282              |
| Naghbijouybari, Dr. Hoda     | National Science Foundation | SaTC: CORE: Small: Microarchitectural side channel attacks and defenses in integrated CPU-GPU systems             | 100                               | \$41,594                     | \$16,869                  | \$58,463              |
| Naghbijouybari, Dr. Hoda     | National Science Foundation | SaTC: CORE: Small: Microarchitectural side channel attacks and defenses in integrated CPU-GPU systems             | 100                               | \$7,667                      | \$0                       | \$7,667               |
| Ponomarev, Dr. Dmitry V      | National Science Foundation | Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models    | 50                                | \$34,925                     | \$16,487                  | \$51,412              |
| Ponomarev, Dr. Dmitry V      | National Science Foundation | Collaborative Research: SaTC: CORE: Medium: Leakage-Free Isolated Execution: Architectures and Security Models    | 50                                | \$7,317                      | \$0                       | \$7,317               |

| <u>Investigator</u>     | <u>Sponsor Name</u>                                  | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|-------------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Ponomarev, Dr. Dmitry V | National Science Foundation                          | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce | 15                                | \$10,170                     | \$5,797                   | \$15,967              |
| Ponomarev, Dr. Dmitry V | National Science Foundation                          | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce | 15                                | \$5,795                      | \$0                       | \$5,795               |
| Ponomarev, Dr. Dmitry V | National Science Foundation                          | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce | 15                                | \$1,171                      | \$668                     | \$1,839               |
| Prakash, Dr. Aravind    | National Science Foundation                          | CAREER: Binary-Level Security via ABI-Centric Semantic Inference                                     | 100                               | \$36,671                     | \$19,805                  | \$56,476              |
| Prakash, Dr. Aravind    | National Science Foundation                          | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce | 15                                | \$1,171                      | \$668                     | \$1,839               |
| Prakash, Dr. Aravind    | US Navy Office of Naval Research                     | ALBER: A Backward-Compatible Late-Stage Debloating Platform for Mobile and Desktop Environments      | 100                               | \$15,862                     | \$9,041                   | \$24,903              |
| Prakash, Dr. Aravind    | Critical Technologies Incorporated                   | Self-Healing Ship/ Software Systems (SHSS)   | 100                               | \$1,315                      | \$750                     | \$2,065               |
| Prakash, Dr. Aravind    | National Science Foundation                          | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce | 15                                | \$5,795                      | \$0                       | \$5,795               |
| Prakash, Dr. Aravind    | National Science Foundation                          | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce | 15                                | \$10,170                     | \$5,797                   | \$15,967              |
| Shin, Dr. Seunghee      | National Science Foundation                          | CAREER: Hardware/Software Co-Design for Serverless Computing   | 100                               | \$15,618                     | \$8,902                   | \$24,521              |
| Shin, Dr. Seunghee      | Research and Business Foundation of Korea University | Research on CPU vulnerability detection and valifation_2022  | 100                               | \$33,668                     | \$5,724                   | \$39,392              |
| Yan, Dr. Guanhua        | IBM Corporation                                      | Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks              | 60                                | \$2,331                      | \$0                       | \$2,331               |

| <u>Investigator</u> | <u>Sponsor Name</u>                           | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Yan, Dr. Guanhua    | National Science Foundation                   | CICI: RSARC: Infrastructure support for securing large-scale scientific workflows  | 35                                | \$22,830                     | \$13,013                  | \$35,843              |
| Yan, Dr. Guanhua    | National Science Foundation                   | Career: Proactive Techniques for Enhancing Security and Resilience of Mobile Communication Infrastructure                                  | 100                               | \$48,419                     | \$17,417                  | \$65,836              |
| Yan, Dr. Guanhua    | National Security Agency                      | 2022 GenCyber Grant Program- State University of New York at Binghamton  | 25                                | \$758                        | \$379                     | \$1,137               |
| Yan, Dr. Guanhua    | State University of New York                  | Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks  | 60                                | \$25,559                     | \$0                       | \$25,559              |
| Yang, Dr. Ping      | National Science Foundation                   | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce                                       | 40                                | \$15,452                     | \$0                       | \$15,452              |
| Yang, Dr. Ping      | State University of New York                  | Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks  | 40                                | \$17,039                     | \$0                       | \$17,039              |
| Yang, Dr. Ping      | National Science Foundation                   | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce                                       | 40                                | \$3,123                      | \$1,780                   | \$4,903               |
| Yang, Dr. Ping      | National Science Foundation                   | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce                                       | 40                                | \$27,120                     | \$15,458                  | \$42,578              |
| Yang, Dr. Ping      | National Science Foundation                   | CICI: RSARC: Infrastructure support for securing large-scale scientific workflows  | 65                                | \$42,399                     | \$24,167                  | \$66,566              |
| Yang, Dr. Ping      | IBM Corporation                               | Real-Time Detection of Advanced Malware Attacks with Ensembles of Graph Neural Networks  | 40                                | \$1,554                      | \$0                       | \$1,554               |
| Yang, Dr. Ping      | National Security Agency                      | 2022 GenCyber Grant Program- State University of New York at Binghamton  | 50                                | \$1,516                      | \$758                     | \$2,274               |
| Yu, Dr. Lei         | NYS Energy Research and Development Authority | Stability Impact Analysis of the New York Power Grid with High Penetration of Inverter Based Distributed Energy Resources Agreement 159612 | 40                                | \$67,672                     | \$27,898                  | \$95,570              |

| <u>Investigator</u> | <u>Sponsor Name</u>         | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|-----------------------------|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Yu, Dr. Lei         | US Department of Energy     | Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants          | 25                                | \$10,216                     | \$5,686                   | \$15,902              |
| Zhang, Dr. Shiqi    | Ford Motor Company          | Ford RIC Unrestricted Support  | 100                               | \$70,194                     | \$10,529                  | \$80,723              |
| Zhang, Dr. Shiqi    | National Science Foundation | NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty                 | 100                               | \$57,381                     | \$31,610                  | \$88,991              |
| Zhang, Dr. Shiqi    | National Science Foundation | NRI: FND: Knowledge-based Robot Sequential Decision Making under Uncertainty                 | 100                               | \$1,254                      | \$0                       | \$1,254               |
| Zhang, Dr. Yifan    | National Science Foundation | CAREER: Enabling Edge-hosted Private Services via Unikernel based Lightweight Virtualization | 100                               | \$22,791                     | \$12,991                  | \$35,781              |
| Zhang, Dr. Yifan    | National Science Foundation | CAREER: Enabling Edge-hosted Private Services via Unikernel based Lightweight Virtualization | 100                               | \$6,000                      | \$0                       | \$6,000               |

**Department Total: \$1,714,234**

**020 Decker/Health and Wellness Studies**

|                      |                               |                                   |    |         |         |         |
|----------------------|-------------------------------|-----------------------------------|----|---------|---------|---------|
| Begdache, Ms. Lina A | Nano-Bio Materials Consortium | Epifluidics for Stress Monitoring | 25 | \$5,293 | \$3,017 | \$8,310 |
|----------------------|-------------------------------|-----------------------------------|----|---------|---------|---------|

**Department Total: \$8,310**

**020 Decker/School of Nursing**

|                      |                            |   |     |           |          |           |
|----------------------|----------------------------|---|-----|-----------|----------|-----------|
| Bryant, Dr. Sharon A | US Department of Education | Binghamton University Upward Bound Math and Science 2017-2022 | 100 | \$153,261 | \$12,261 | \$165,522 |
| Bryant, Dr. Sharon A | US Department of Education | Binghamton University Upward Bound Math and Science           | 50  | \$5,278   | \$422    | \$5,700   |
| Bryant, Dr. Sharon A | NYS Education Department   | Science and Technology Entry Program (STEP)                   | 100 | \$122,716 | \$9,817  | \$132,534 |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                  | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Bryant, Dr. Sharon A       | NYS Education Department                    | Collegiate Science Technology Entry Program 2022-2023                              | 100                                      | \$116,642                           | \$9,331                          | \$125,973                    |
| Bryant, Dr. Sharon A       | NYS Education Department                    | Collegiate Science Technology Entry Program  | 100                                      | \$42,396                            | \$3,392                          | \$45,788                     |
| Bryant, Dr. Sharon A       | NYS Education Department                    | STEP 2021-2022   | 50                                       | \$9,139                             | \$582                            | \$9,722                      |
| Bryant, Dr. Sharon A       | US Department of Education                  | Binghamton University Upward Bound Math and Science 2017-2022                      | 100                                      | \$4,110                             | \$0                              | \$4,110                      |
| Fronczek, Ms. Ann          | Health Resources and Services Admin         | Advancing Nursing Education Workforce  | 50                                       | \$34,246                            | \$2,740                          | \$36,986                     |
| Fronczek, Ms. Ann          | Health Resources and Services Admin         | Advancing Nursing Education Workforce  | 50                                       | \$13,784                            | \$0                              | \$13,784                     |
| Fronczek, Ms. Ann          | Health Resources and Services Admin         | Advancing Nursing Education Workforce  | 50                                       | \$72,166                            | \$5,773                          | \$77,940                     |
| Fronczek, Ms. Ann          | Health Resources and Services Admin         | Advancing Nursing Education Workforce  | 50                                       | \$132,916                           | \$0                              | \$132,916                    |
| Palmer, Ms. Deborah        | International Home Care Nurses Organization | Bringing Nursing Home  | 25                                       | \$234                               | \$0                              | \$234                        |
| Reuther, Ms. Patricia      | International Home Care Nurses Organization | Bringing Nursing Home  | 25                                       | \$234                               | \$0                              | \$234                        |
| Rouhana, Dr. Nicole A.     | Health Resources and Services Admin         | Advancing Nursing Education Workforce  | 50                                       | \$132,916                           | \$0                              | \$132,916                    |
| Rouhana, Dr. Nicole A.     | Mary Imogene Bassett Hospital               | Advanced Nursing Education- Nurse Practitioner Residence Program (ANE-NPR Program) | 100                                      | \$23,903                            | \$2,390                          | \$26,293                     |

| <u>Investigator</u>      | <u>Sponsor Name</u>                         | <u>Award Title</u>                    | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|---|---------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Rouhana, Dr. Nicole A.   | Health Resources and Services Admin         | Advancing Nursing Education Workforce | 50                                | \$13,784                     | \$0                       | \$13,784              |
| Rouhana, Dr. Nicole A.   | Health Resources and Services Admin         | Advancing Nursing Education Workforce | 50                                | \$34,246                     | \$2,740                   | \$36,986              |
| Rouhana, Dr. Nicole A.   | Health Resources and Services Admin         | Advancing Nursing Education Workforce | 50                                | \$72,166                     | \$5,773                   | \$77,940              |
| Sprague, Lisa M          | International Home Care Nurses Organization | Bringing Nursing Home                 | 25                                | \$234                        | \$0                       | \$234                 |
| Sutherland, Ms. Jodi L   | International Home Care Nurses Organization | Bringing Nursing Home                 | 25                                | \$234                        | \$0                       | \$234                 |
| <b>Department Total:</b> |   |                                       |                                   | <b>\$1,039,828</b>           |                           |                       |

***020 Decker/Speech Language Pathology***

|                          |                                       |  |     |                  |          |          |
|--------------------------|---------------------------------------|--|-----|------------------|----------|----------|
| Duff, Dr. Dawna          | University of South Carolina          | Word Learning in Reading and Language Impairment Subgroups PO20000660002/ USC10008542  | 100 | \$63,402         | \$36,139 | \$99,542 |
| Gabel, Dr. Rodney        | Newark Valley Central School District | Clinical Placement Agreement between Newark Valley Central School District and The Research Foundation For The State University of New York, Binghamton University | 100 | \$5,714          | \$1,486  | \$7,200  |
| Gabel, Dr. Rodney        | Gigis Playhouse                       | Clinical Placement Agreement between GIGI's Playhouse Southern Tier and The Research Foundation For The State University of New York, Binghamton University        | 100 | \$3,572          | \$928    | \$4,500  |
| <b>Department Total:</b> |                                       |  |     | <b>\$111,241</b> |          |          |

***020 Economics***

|                        |                             |  |    |          |         |          |
|------------------------|-----------------------------|--|----|----------|---------|----------|
| Hanes, Dr. Christopher | National Science Foundation | Doctoral Dissertation Research in Economics: The Effects of Micro-Finance Access on Economic and Social Outcomes of Low Income Women | 50 | \$12,422 | \$3,230 | \$15,651 |
|------------------------|-----------------------------|--|----|----------|---------|----------|

| <u><i>Investigator</i></u>      | <u><i>Sponsor Name</i></u>                                 | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|---------------------------------|--|--|--|-------------------------------------|----------------------------------|------------------------------|
| Hanes, Dr. Christopher          | National Science Foundation                                | Cliometrics Conferences 2021, 2023, and World Congress for 2022  | 50                                       | \$1,413                             | \$367                            | \$1,780                      |
| Khanna, Dr. Neha                | North Carolina Agricultural and Technical State University | Eir: Enviromental Justice and the Multigenerational Persistence of Environmental Exposure  | 100                                      | \$7,668                             | \$4,371                          | \$12,038                     |
| Nikolov, Mr. Plamen             | National Science Foundation                                | Doctoral Dissertation Research in Economics: The Effects of Micro-Finance Access on Economic and Social Outcomes of Low Income Women | 50                                       | \$12,422                            | \$3,230                          | \$15,651                     |
| Wolcott, Dr. Susan              | National Science Foundation                                | Cliometrics Conferences 2021, 2023, and World Congress for 2022  | 50                                       | \$1,413                             | \$367                            | \$1,780                      |
| Wolcott, Dr. Susan              | National Science Foundation                                | Cilometrics Conferences for 2018, 2019, and 2020   | 100                                      | \$19,386                            | \$915                            | \$20,301                     |
| Yang, Dr. Zili                  | Yale University  | DICE/RICE Modeling Works for Yale Climate Change Research Program (YCCPR)  | 100                                      | \$26,482                            | \$2,648                          | \$29,130                     |
| <b><i>Department Total:</i></b> |  |  |  | <b><i>\$96,331</i></b>              |                                  |                              |

***020 Electrical and Computer Engineering***

|                  |  |  |     |           |          |           |
|------------------|--|--|-----|-----------|----------|-----------|
| Akyol, Dr. Emrah | National Science Foundation                | CIF: Small: Strategic Communication: Concerpts, Methods, and Applications  | 100 | \$49,245  | \$28,070 | \$77,315  |
| Akyol, Dr. Emrah | National Science Foundation                | CAREER: A Holistic Framework for the Analysis of Information Dynamics in Human Networks                            | 100 | \$52,229  | \$25,253 | \$77,481  |
| Chen, Dr. Yu     | US Air Force Office of Scientific Research | 5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System | 50  | \$107,381 | \$0      | \$107,381 |
| Chen, Dr. Yu     | Intelligent Fusion Technology Incorporated | ROBOT: Resilience Oriented Blockchain Operational Transactor for Urban Air Mobility Networks - FA9550-22-P-0011    | 100 | \$12,343  | \$6,487  | \$18,830  |



| <u>Investigator</u> | <u>Sponsor Name</u>                        | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Chen, Dr. Yu        | US Air Force Office of Scientific Research | ERSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain        | 50                                | \$20,549                     | \$11,164                  | \$31,713              |
| Chen, Dr. Yu        | National Science Foundation                | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce   | 15                                | \$1,171                      | \$668                     | \$1,839               |
| Chen, Dr. Yu        | National Science Foundation                | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce   | 15                                | \$5,795                      | \$0                       | \$5,795               |
| Chen, Dr. Yu        | National Science Foundation                | CyberCorps Scholarship for Service: Expanding and Strengthening the National Cybersecurity Workforce   | 15                                | \$10,170                     | \$5,797                   | \$15,967              |
| Chen, Dr. Yu        | National Science Foundation                | EAGER: SaTC: CORE: Small: Decentralized Assurance by Fair Proof of Work Consensus Federated Ledgers  | 100                               | \$27,407                     | \$14,524                  | \$41,932              |
| Chen, Dr. Yu        | National Science Foundation                | EAGER: SaTC: SAVED: Secure Audio and Video Data from Deepfake Attacks Leveraging Environmental Fingerprints  | 100                               | \$41,368                     | \$22,482                  | \$63,850              |
| Choi, Dr. Seokheun  | National Science Foundation                | Stretchable Papertronics   | 50                                | \$51,647                     | \$25,872                  | \$77,518              |
| Choi, Dr. Seokheun  | National Science Foundation                | Rapid, High-Throughput, and Real-time Assessment of Antibiotic Effectiveness against Pathogenic Biofilms   | 100                               | \$22,071                     | \$12,580                  | \$34,651              |
| Choi, Dr. Seokheun  | US Navy Office of Naval Research           | Plug-n-Play Micro-Bio-Photovoltaic Panels  | 100                               | \$45,566                     | \$22,553                  | \$68,119              |
| Choi, Dr. Seokheun  | National Science Foundation                | Power-On-Skin: Energy Generation from Sweat-Eating Bacteria for Self-Powered Electronic Skins  | 60                                | \$25,448                     | \$12,454                  | \$37,902              |
| Das, Dr. Pritam     | Mallika Ashwin Maya                        | Battery Energy Storage System (BESS) with Three Phase Grid Integrated Inverter Using 3D Printed Magnetics Components with Nanocrystalline Soft Magnetic Material | 50                                | \$1,323                      | \$754                     | \$2,077               |

| <u>Investigator</u>      | <u>Sponsor Name</u>                           | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Das, Dr. Pritam          | NYS Energy Research and Development Authority | Feasibility Study of an Onboard XFC/Motor Drive System with Extended Lifetime Batteries Agreement No. 138104   | 100                               | \$2,120                      | \$1,208                   | \$3,329               |
| Das, Dr. Pritam          | NYS Energy Research and Development Authority | Agreement 127609- A Flexible Storage Plus Distributed Energy Resource (DER) Solution for Warehouse Energy Management   | 40                                | \$146,846                    | \$9,462                   | \$156,309             |
| Das, Dr. Pritam          | Mallika Ashwin Maya                           | Battery Energy Storage System (BESS) with Three Phase Grid Integrated Inverter Using 3D Printed Magnetics Components with Nanocrystalline Soft Magnetic Material (Phase II) DE-SC0021784 | 55                                | \$19,680                     | \$8,008                   | \$27,688              |
| Das, Dr. Pritam          | National Science Foundation                   | I-Corps - Vanadium Redox Flow Batteries for Small Urban Businesses   | 100                               | \$1,788                      | \$199                     | \$1,986               |
| Dhakal, Dr. Tara Prasad  | GVD Corporation                               | SBIR Phase II: Reduced Environmental Controls in Perovskite Solar Cell Manufacturing Enabled by Vacuum-Deposited Gas Barrier Coatings  | 100                               | \$14,803                     | \$8,438                   | \$23,241              |
| Dhakal, Dr. Tara Prasad  | National Science Foundation                   | CAREER: Toward Twenty Year Lifetime: Hermetic Sealing for Perovskite Solar Cells   | 100                               | \$53,121                     | \$28,912                  | \$82,033              |
| Dhakal, Dr. Tara Prasad  | National Science Foundation                   | MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)  | 10                                | \$7,040                      | \$0                       | \$7,040               |
| Dhakal, Dr. Tara Prasad  | National Science Foundation                   | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors   | 50                                | \$28,221                     | \$15,268                  | \$43,489              |
| Dhakal, Dr. Tara Prasad  | National Science Foundation                   | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors   | 50                                | \$8,594                      | \$955                     | \$9,549               |
| Dhakal, Dr. Tara Prasad  | SunDensity                                    | Center for Autonomous Solar Power (CASP): Evaluation Services Agreement  | 100                               | \$12,970                     | \$7,393                   | \$20,364              |
| Fridrich, Dr. Jessica J. | National Science Foundation                   | SaTC: CORE: Medium: Steganography Based on Sensor Capture Models: Replacing Heuristics with Model-Based Designs  | 100                               | \$92,434                     | \$45,343                  | \$137,776             |

| <u>Investigator</u>  | <u>Sponsor Name</u>                           | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Klotzkin, Dr. David  | Best Epitaxy Manufacturing Company Limited    | Optimization of Epitaxial Structures for LiDAR Applications  | 100                               | \$19,650                     | \$11,201                  | \$30,851              |
| Klotzkin, Dr. David  | Source Photonics Incorporated                 | Modeling-based Design of Photon-Photon Resonance and Detuned Loading Device for Ultrahigh Bandwidths   | 100                               | \$6,042                      | \$3,444                   | \$9,486               |
| Li, Dr. Jian         | US Army Research Office                       | Resource Constrained Reinforcement Learning for Adaptive Data Analytics in Tactical Networks   | 100                               | \$6,830                      | \$3,344                   | \$10,175              |
| Li, Dr. Jian         | New York University                           | RINGS: Resilient Edge Networks with Data-driven Model-based Learning   | 100                               | \$22,938                     | \$12,526                  | \$35,464              |
| Li, Dr. Jian         | National Science Foundation                   | CRII: CNS: NeTS: Adaptive Cache Dimensioning in Cloud CDNs: Foundations and Practice   | 100                               | \$23,780                     | \$13,006                  | \$36,786              |
| Li, Dr. Jian         | US Department of Energy                       | Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants  | 25                                | \$10,216                     | \$5,686                   | \$15,902              |
| Li, Dr. Xiaohua      | US Air Force Office of Scientific Research    | 5G-MiWIS: A Testbed for an Environmental Resilient 5G Millimeter Wave Imaging Technology based Surveillance System   | 50                                | \$107,381                    | \$0                       | \$107,381             |
| Li, Dr. Xiaohua      | US Air Force Office of Scientific Research    | ERSES-5G: Integrated 5G Imaging and Communication Surveillance as an Edge Service Secured by a Lightweight Environmental Fingerprint Consensus Blockchain                                | 50                                | \$20,549                     | \$11,164                  | \$31,713              |
| Schiffres, Dr. Scott | Mallika Ashwin Maya                           | Battery Energy Storage System (BESS) with Three Phase Grid Integrated Inverter Using 3D Printed Magnetics Components with Nanocrystalline Soft Magnetic Material (Phase II) DE-SC0021784 | 45                                | \$16,102                     | \$6,552                   | \$22,654              |
| Zhang, Dr. Ziang     | NYS Energy Research and Development Authority | Agreement 127609- A Flexible Storage Plus Distributed Energy Resource (DER) Solution for Warehouse Energy Management   | 60                                | \$220,270                    | \$14,193                  | \$234,463             |

| <u>Investigator</u> | <u>Sponsor Name</u>                           | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Zhang, Dr. Ziang    | NYS Energy Research and Development Authority | Stability Impact Analysis of the New York Power Grid with High Penetration of Inverter Based Distributed Energy Resources Agreement 159612 | 60                                | \$101,507                    | \$41,847                  | \$143,355             |
| Zhang, Dr. Ziang    | National Science Foundation                   | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors   | 20                                | \$3,437                      | \$382                     | \$3,819               |
| Zhang, Dr. Ziang    | National Science Foundation                   | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors   | 20                                | \$11,288                     | \$6,107                   | \$17,396              |
| Zhang, Dr. Ziang    | Empire State Development Corp                 | Smart Cities Innovation Partnership Project: Advanced Water Meters in New York State: Capital Grant: Project#134,146                       | 33                                | \$55,857                     | \$2,373                   | \$58,230              |
| Zhang, Dr. Ziang    | US Department of Energy                       | Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants  | 25                                | \$10,216                     | \$5,686                   | \$15,902              |
| Zhou, Dr. Ning      | National Science Foundation                   | CAREER: Integrated Dynamic State Estimation for Monitoring Power Systems Under High Uncertainty and Variation                              | 100                               | \$68,584                     | \$36,349                  | \$104,933             |
| Zhou, Dr. Ning      | US Department of Energy                       | Asynchronous Distributed and Adaptive Parameter Tuning (ADAPT) for Hybrid PV Plants  | 25                                | \$10,216                     | \$5,686                   | \$15,902              |

**Department Total: \$2,069,581**

**020 Electrical Engineering**

|                  |   |  |     |     |          |          |
|------------------|---|--|-----|-----|----------|----------|
| Salman, Dr. Emre | National Inst of Arthritis Musculoskeletal & Skin | Self-Powered Load Sensors for Total Knee Replacement Health Monitoring | 100 | \$0 | \$14,250 | \$14,250 |
|------------------|---|--|-----|-----|----------|----------|

**Department Total: \$14,250**

**020 Entrepreneurship and Innovation Partnership**

|                            |                                     |  |     |           |          |           |
|----------------------------|-------------------------------------|--|-----|-----------|----------|-----------|
| Francisco, Mrs. Michele R. | Multiple Sponsors                   | Trade Adjustment Assistance Center Income Account  | 100 | \$3,299   | \$0      | \$3,299   |
| Francisco, Mrs. Michele R. | Economic Development Administration | Trade Adjustment Assistance Center Serving New York, New Jersey, and the Commonwealth of Puerto Rico | 100 | \$512,153 | \$98,333 | \$610,486 |

| <u>Investigator</u>        | <u>Sponsor Name</u>                 | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------------|-------------------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Francisco, Mrs. Michele R. | Economic Development Administration | Trade Adjustment Assistance Center Serving New York, New Jersey, and the Commonwealth of Puerto Rico        | 100                               | \$18,677                     | \$5,005                   | \$23,683              |
| Francisco, Mrs. Michele R. | Economic Development Administration | FY2021 Trade Adjustment Assistance Center Service New York, New Jersey, and the Commonwealth of Puerto Rico | 100                               | \$59,661                     | \$10,745                  | \$70,406              |
| Iankova, Dr. Elena A       | Economic Development Administration | Soft Landings in New York's Southern Tier   | 50                                | \$158,050                    | \$38,168                  | \$196,218             |
| McLeod, Dr. Kenneth J      | VentureWell                         | Faculty Grant - Developing an Entrepreneurial Mindset in First Year Women Students                          | 100                               | \$3,335                      | \$0                       | \$3,335               |
| Petrova, Dr. Olga          | Cornell University                  | NSF I-Corps Hub (Track 1): Interior Northeast   | 25                                | \$5,420                      | \$1,409                   | \$6,829               |
| Petrova, Dr. Olga          | National Science Foundation         | I-Corps: Manufacturing Process for Recycled Glass Pozzolan  | 100                               | \$12,016                     | \$1,335                   | \$13,351              |
| Petrova, Dr. Olga          | National Science Foundation         | PFI-TT: Developing a vacuum stripping and absorption system for value-added ammonia removal from wastewater | 100                               | \$8,205                      | \$2,133                   | \$10,339              |
| Petrova, Dr. Olga          | VentureWell                         | Integrated Biomedical Entrepreneurship Training (IBET)  | 100                               | \$2,485                      | \$0                       | \$2,485               |
| Stromhaug, Dr. Per         | NYS Electric and Gas Corporation    | NYSEG Ignition Program  | 100                               | \$125,000                    | \$0                       | \$125,000             |
| Stromhaug, Dr. Per         | Multiple Sponsors                   | Export NY Coordinator and Continued CIBA Activities   | 100                               | \$4,422                      | \$663                     | \$5,085               |
| Stromhaug, Dr. Per         | National Science Foundation         | Type 1: Innovation Binghamton NSF I-Corps Site  | 100                               | \$145,711                    | \$0                       | \$145,711             |
| Stromhaug, Dr. Per         | National Science Foundation         | Type 1: Innovation Binghamton NSF I-Corps Site  | 100                               | \$13,517                     | \$7,705                   | \$21,222              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                    | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Stromhaug, Dr. Per         | National Science Foundation                   | Type 1: Innovation Binghamton NSF I-Corps Site   | 100                                      | \$20,627                            | \$11,757                         | \$32,384                     |
| Stromhaug, Dr. Per         | Economic Development Administration           | New Energy New York: Battery-NY Center Operations  | 50                                       | \$21,171                            | \$8,045                          | \$29,215                     |
| Stromhaug, Dr. Per         | New Energy Nexus New York                     | Supercharge New York   | 100                                      | \$69,259                            | \$18,007                         | \$87,266                     |
| Stromhaug, Dr. Per         | NYS Department of Economic Development        | New York State Business Incubator and Innovation Hot Spot Support Program                    | 100                                      | \$9,578                             | \$0                              | \$9,578                      |
| Stromhaug, Dr. Per         | NYS Energy Research and Development Authority | Southern Tier Clean Energy Incubator-NYSERDA 110470  | 100                                      | \$201,576                           | \$52,410                         | \$253,986                    |
| Stromhaug, Dr. Per         | NYS Energy Research and Development Authority | Agreement 154461: empowerST: Empowering Energy Storage Entrepreneurship in the Southern Tier | 50                                       | \$84,627                            | \$48,238                         | \$132,865                    |
| Stromhaug, Dr. Per         | Empire State Development Corp                 | CFA 96852: New Energy New York   | 50                                       | \$26,050                            | \$5,208                          | \$31,259                     |
| Stromhaug, Dr. Per         | NYS Department of Economic Development        | New York State Business Incubator and Innovation Hot Spot Support Program                    | 100                                      | \$125,000                           | \$0                              | \$125,000                    |
| Stromhaug, Dr. Per         | Cornell University                            | NSF I-Corps Hub (Track 1): Interior Northeast  | 25                                       | \$5,420                             | \$1,409                          | \$6,829                      |
| Stromhaug, Dr. Per         | Empire State Development Corp                 | CFA 96852: New Energy New York   | 50                                       | \$674,638                           | \$11,262                         | \$685,901                    |
| Stromhaug, Dr. Per         | Empire State Development Corp                 | CFA 96852: New Energy New York   | 50                                       | \$5,027                             | \$1,910                          | \$6,937                      |
| Stromhaug, Dr. Per         | Economic Development Administration           | New Energy New York: Supply Chain Development and Qualification Programs                     | 50                                       | \$45,510                            | \$4,750                          | \$50,260                     |

| <u>Investigator</u> | <u>Sponsor Name</u>                 | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|-------------------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Stromhaug, Dr. Per  | Economic Development Administration | New Energy New York: Innovation and Entrepreneurship            | 50                                | \$24,020                     | \$9,128                   | \$33,148              |
| Stromhaug, Dr. Per  | Economic Development Administration | New Energy New York: Climate Justice and Social Equity Programs | 50                                | \$6,797                      | \$2,583                   | \$9,380               |
| Stromhaug, Dr. Per  | Economic Development Administration | New Energy New York: Workforce Development Programs             | 50                                | \$53,486                     | \$15,437                  | \$68,923              |
| Stromhaug, Dr. Per  | Economic Development Administration | Soft Landings in New York's Southern Tier                       | 50                                | \$158,050                    | \$38,168                  | \$196,218             |
| Stromhaug, Dr. Per  | Economic Development Administration | New Energy New York   | 50                                | \$49,936                     | \$12,983                  | \$62,920              |
| Stromhaug, Dr. Per  | Economic Development Administration | EDA i6 Challenge Binghamton XCEEDs                              | 100                               | \$150,693                    | \$21,772                  | \$172,465             |
| Stromhaug, Dr. Per  | Empire State Development Corp       | CFA 96852: New Energy New York                                  | 50                                | \$31,495                     | \$11,968                  | \$43,462              |

**Department Total: \$3,275,442**

**020 Geography**

|                    |                               |  |    |          |         |          |
|--------------------|-------------------------------|--|----|----------|---------|----------|
| Deng, Dr. Chengbin | Empire State Development Corp | Smart Cities Innovation Partnership Project: Advanced Water Meters in New York State: Capital Grant: Project#134,146 | 33 | \$55,857 | \$2,373 | \$58,230 |
|--------------------|-------------------------------|--|----|----------|---------|----------|

**Department Total: \$58,230**

**020 Geological Sci & Environmental Studies**

|                      |                             |  |     |         |         |         |
|----------------------|-----------------------------|--|-----|---------|---------|---------|
| de Smet, Dr. Timothy | National Science Foundation | I-Corps: An integrated wide-area unmanned aerial vehicle (UAV) aeromagnetic survey system targeting orphaned oil and gas wells | 50  | \$1,428 | \$159   | \$1,586 |
| Jenkins, Dr. David M | National Science Foundation | Stability and Thermochemistry of some Chlorine-Bearing Calcium Amphiboles  | 100 | \$3,269 | \$1,326 | \$4,595 |

| <u>Investigator</u>    | <u>Sponsor Name</u>                                     | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|------------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Knuepfer, Dr. Peter    | NYS Department of Environmental Conservation            | Great Lakes Small Grants Program  | 100                               | \$1,122                      | \$0                       | \$1,122               |
| Lam, Dr. Adriane       | Trustees of Columbia University in the City of New York | U.S. Science Support Program Office associated with the International Ocean Discovery Program (USSSP-IODP)  | 100                               | \$14,188                     | \$3,689                   | \$17,877              |
| Lowenstein, Dr. Tim K  | National Science Foundation                             | Collaborative Research: Anatomy of a Greenhouse World: The Early Eocene of the Green River Basin, Wyoming   | 100                               | \$35,792                     | \$9,183                   | \$44,975              |
| Lowenstein, Dr. Tim K  | National Science Foundation                             | Collaborative Research: Regional hydrologic and vegetation changes over the last 150 kyr in the Searles and Death Valley basins   | 100                               | \$712                        | \$406                     | \$1,118               |
| Lowenstein, Dr. Tim K  | US Israel Binational Science Foundation                 | Evaporite deposition in deep hypersaline basins: New insights from modern halite in the Dead Sea  | 100                               | \$13,297                     | \$1,995                   | \$15,292              |
| Nikulin, Dr. Alex      | National Science Foundation                             | I-Corps: Delivering Integrated Technology for Automated Wide-Area Humanitarian Mine Action Surveys  | 100                               | \$25,000                     | \$2,780                   | \$27,780              |
| Nikulin, Dr. Alex      | American Chemical Society                               | Unconventional Seismic Imaging in Unconventional Reservoir Characterization : A Passive-Source Seismic Investigation of the Marcellus and Utica Shale Plays               | 100                               | \$10,890                     | \$0                       | \$10,890              |
| Nikulin, Dr. Alex      | National Science Foundation                             | I-Corps: An integrated wide-area unmanned aerial vehicle (UAV) aeromagnetic survey system targeting orphaned oil and gas wells  | 50                                | \$1,428                      | \$159                     | \$1,586               |
| Patterson, Dr. Molly   | National Science Foundation                             | Collaborative Research: Sensitivity of the West Antarctic Ice Sheet to 2? Celsius (SWAIS 2C)  | 100                               | \$3,391                      | \$1,933                   | \$5,324               |
| Patterson, Dr. Molly   | National Science Foundation                             | COLLABORATIVE RESEARCH: Orbital-scale Variability of the West Antarctic Ice Sheet and the Formation of Bottom Water in the Ross Sea during Pliocene-Pleistocene           | 100                               | \$35,209                     | \$9,154                   | \$44,363              |
| Pietras, Dr. Jeffrey T | American Chemical Society                               | Linking the Distribution, Surface Morphology, Pore Structure, and Environmental Conditions of Lacustrine Microbialite Reservoir Facies: Fayetteville Green Lake, New York | 50                                | \$5,697                      | \$0                       | \$5,697               |



| <u>Investigator</u>               | <u>Sponsor Name</u>         | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|-----------------------------------|-----------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Schmitkons, Mr. Jonathan P.       | American Chemical Society   | Linking the Distribution, Surface Morphology, Pore Structure, and Environmental Conditions of Lacustrine Microbialite Reservoir Facies: Fayetteville Green Lake, New York | 50                                | \$5,697                      | \$0                       | \$5,697               |
|                                   |                             |   |                                   | <b>Department Total:</b>     | <b>\$187,904</b>          |                       |
| <b>020 Graduate School Dean</b>   |                             |   |                                   |                              |                           |                       |
| Mahler, Dr. Gretchen J            | National Science Foundation | Graduate Research Fellowship Funding 2021-2026  | 100                               | \$997                        | \$0                       | \$997                 |
| Mahler, Dr. Gretchen J            | National Science Foundation | Graduate Research Fellowship Funding 2021-2026  | 100                               | \$6,689                      | \$0                       | \$6,689               |
|                                   |                             |   |                                   | <b>Department Total:</b>     | <b>\$7,686</b>            |                       |
| <b>020 Library Administration</b> |                             |   |                                   |                              |                           |                       |
| Gallagher, Dr. Matt               | NYS Education Department    | Library Collection 2022-2023  | 100                               | \$8,125                      | \$0                       | \$8,125               |
| Parks, Ms. Heather                | NYS Education Department    | Conservation & Preservation 2020-2023<br>0306218993/ 030600925/0306239242   | 100                               | \$70,734                     | \$0                       | \$70,734              |
|                                   |                             |   |                                   | <b>Department Total:</b>     | <b>\$78,859</b>           |                       |
| <b>020 Mathematical Sciences</b>  |                             |   |                                   |                              |                           |                       |
| Borisov, Dr. Alexander            | National Science Foundation | Binghamton University's Graduate Conference in Algebra and Topology (BUGCAT) 2019, 2020, 2021   | 100                               | \$15,269                     | \$1,643                   | \$16,912              |
| Chen, Dr. Mei-Hsiu                | National Science Foundation | Mechanobiology of Myofibroblast Behavior in Health and Disease  | 25                                | \$16,897                     | \$9,357                   | \$26,254              |
| Kargin, Dr. Vladislav             | Simons Foundation           | Research on Random Matrices and its Applications  | 100                               | \$2,880                      | \$576                     | \$3,456               |
| Malkiewich, Dr. Cary              | National Science Foundation | Algebraic K-Theory in Fixed-Point Theory and Smooth Manifolds   | 100                               | \$30,973                     | \$17,654                  | \$48,627              |

| <u>Investigator</u>  | <u>Sponsor Name</u>         | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------|-----------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Malkiewich, Dr. Cary | National Science Foundation | FRG: Collaborative Research: Trace Methods and Applications for Cut-and-Paste K-Theory                      | 100                               | \$1,924                      | \$1,097                   | \$3,021               |
| Ontaneda, Dr. Pedro  | National Science Foundation | Challenges in Negative and Nonpositive Curvature  | 100                               | \$32,951                     | \$18,782                  | \$51,733              |
| Sapir, Dr. Eugenia   | Simons Foundation           | Coarse and Fine Geometry of Negatively Curved Surfaces  | 100                               | \$505                        | \$101                     | \$606                 |
| Zhou, Dr. Gang       | Simons Foundation           | Mathematical problems in non-equilibrium statistical mechanics, and singularities formed by geometric flows | 100                               | \$2,874                      | \$575                     | \$3,449               |

**Department Total: \$154,057**

**020 Mechanical Engineering**

|                   |  |   |     |          |          |          |
|-------------------|--|---|-----|----------|----------|----------|
| Chiarot, Dr. Paul | National Science Foundation                        | Capillary-Assisted Printing of Structured Colloidal Monolayers  | 33  | \$25,661 | \$12,670 | \$38,331 |
| Chiarot, Dr. Paul | National Science Foundation                        | Capillary-Assisted Printing of Structured Colloidal Monolayers  | 25  | \$4,352  | \$2,481  | \$6,833  |
| Chiarot, Dr. Paul | Purdue University                                  | Chiarot 2020 SRC CHIRP: Conformal Polymeric Thin Films Manufacturing Using Electrospray Printing  | 100 | \$24,334 | \$13,870 | \$38,204 |
| Chiarot, Dr. Paul | Purdue University                                  | CHIRP 2021: Printed Conformal Metal Films for electromagnetic Interference (EMI) Protection Semiconductor Research Corporation Prime Agreement 2019-PK-2878 | 100 | \$27,468 | \$15,657 | \$43,125 |
| Cho, Dr. Junghyun | Honeywell Federal Manufacturing & Technologies LLC | Adhesives Characterization- Project 702010, Rev. 1  | 100 | \$34,841 | \$19,859 | \$54,700 |
| Cho, Dr. Junghyun | IBM Corporation                                    | Artificial Intelligence Collaborative Research Alliance   | 100 | \$3,620  | \$0      | \$3,620  |
| Cho, Dr. Junghyun | SUNY System Administration                         | SUNY-IBM AI Collaborative Research Alliance   | 100 | \$259    | \$0      | \$259    |

| <u>Investigator</u> | <u>Sponsor Name</u>                              | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Cho, Dr. Junghyun   | Universal Instruments Corporation                | Electronic Assembly Solder Alloy Development   | 100                               | \$14,059                     | \$3,655                   | \$17,715              |
| Huang, Dr. Pong-Yu  | National Science Foundation                      | Mechanobiology of Myofibroblast Behavior in Health and Disease   | 25                                | \$16,897                     | \$9,357                   | \$26,254              |
| Huang, Dr. Pong-Yu  | National Science Foundation                      | Capillary-Assisted Printing of Structured Colloidal Monolayers   | 33                                | \$25,661                     | \$12,670                  | \$38,331              |
| Ke, Dr. Changhong   | National Science Foundation                      | PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices   | 25                                | \$1,273                      | \$0                       | \$1,273               |
| Ke, Dr. Changhong   | National Science Foundation                      | Collaborative Research: Exploiting Nanoscale Interfaces to Enhance Bulk Mechanical Response of Additively Manufactured Boron Nitride Nanotube-Metal Composites | 100                               | \$79,023                     | \$22,311                  | \$101,334             |
| Ke, Dr. Changhong   | National Science Foundation                      | Multiple-Energy- Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning                                      | 50                                | \$66,121                     | \$23,282                  | \$89,403              |
| Ke, Dr. Changhong   | National Inst on Deafness & Other Comm Disorders | Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal   | 33                                | \$46,732                     | \$20,114                  | \$66,846              |
| Ke, Dr. Changhong   | Board of Regents of the University of Nebraska   | Numerical Simulation of Spray Deposited Electrolyte Layer for Proton Conducting Fuel Cells   | 100                               | \$23,625                     | \$12,368                  | \$35,993              |
| Ke, Dr. Changhong   | Cornell University                               | NASA NY Space Grant Consortium   | 100                               | \$6,368                      | \$0                       | \$6,368               |
| Ke, Dr. Changhong   | National Science Foundation                      | PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices   | 25                                | \$8,209                      | \$4,405                   | \$12,613              |
| Miles, Dr. Ronald N | National Inst on Deafness & Other Comm Disorders | Capacitive Pressure/ Velocity Probe for Acoustic Measurements in the Human Ear Canal   | 67                                | \$94,881                     | \$40,837                  | \$135,718             |
| Murray, Dr. Bruce T | National Science Foundation                      | Mechanobiology of Myofibroblast Behavior in Health and Disease   | 25                                | \$16,897                     | \$9,357                   | \$26,254              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Park, Dr. Seungbae         | Koh Young Technology Incorporated         | Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology: A Systematic Integration of Reflow and Dispensing Processes with PCB Assembly for Quality Enhancement | 34                                       | \$7,784                             | \$3,088                          | \$10,872                     |
| Park, Dr. Seungbae         | SUNY Applied Materials Research Institute | Design, Develop and Demonstrate a True 3D Packaging  | 25                                       | \$31                                | \$18                             | \$49                         |
| Park, Dr. Seungbae         | Koh Young Technology Incorporated         | Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology  | 34                                       | \$4,659                             | \$1,306                          | \$5,966                      |
| Park, Dr. Seungbae         | Koh Young Technology Incorporated         | Development of Self-Optimization and AI-based Diagnostics Modules in the Printed Circuit Board Assembly Process  | 34                                       | \$20,691                            | \$10,445                         | \$31,136                     |
| Park, Dr. Seungbae         | Koh Young Technology Incorporated         | AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly  | 34                                       | \$15,414                            | \$7,437                          | \$22,851                     |
| Park, Dr. Seungbae         | General Electric Global Research          | Air-Deployable Cost-Effective Organic Radiation Noes (ACORN) Option 2  | 100                                      | \$11,843                            | \$6,202                          | \$18,045                     |
| Park, Dr. Seungbae         | Corning Incorporated                      | Evaluation of TGV Thermo-Mechanical Behavior by Micro Digital Image Correlation (micro-DIC)  | 100                                      | \$28,238                            | \$16,096                         | \$44,334                     |
| Park, Dr. Seungbae         | Applied Materials                         | Design, Develop and Demonstrate a True 3D Packaging  | 25                                       | \$7,652                             | \$4,224                          | \$11,876                     |
| Park, Dr. Seungbae         | Purdue University                         | Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021   | 33                                       | \$25,127                            | \$13,590                         | \$38,717                     |
| Pitarresi, Dr. James       | National Science Foundation               | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials  | 20                                       | \$38,266                            | \$7,391                          | \$45,657                     |
| Pitarresi, Dr. James       | National Science Foundation               | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials  | 20                                       | \$49,129                            | \$0                              | \$49,129                     |

| <u>Investigator</u>          | <u>Sponsor Name</u>                       | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|------------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Rangarajan, Dr. Srikanth     | US Department of Commerce                 | Novel In-situ Thermal Property Mapping to Study Powder Feedstock Aging and Laser Powder Bed Fusion   | 33                                | \$32,720                     | \$12,530                  | \$45,250              |
| Razavi Aghjeh, Dr. Mir Jalil | National Science Foundation               | Mechanics of the Formation of Cortical Folding Patterns in the Developing Human Brain  | 50                                | \$58,442                     | \$25,793                  | \$84,234              |
| Sammakia, Dr. Bahgat G       | Purdue University                         | Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021   | 34                                | \$25,888                     | \$14,002                  | \$39,890              |
| Sammakia, Dr. Bahgat G       | Villanova University                      | I/UCRC Phase 111: Center for Energy Smart Electronic Systems (ES2) Subaward No. 525942SUNY   | 50                                | \$2,539                      | \$1,447                   | \$3,987               |
| Sammakia, Dr. Bahgat G       | University of Texas at Arlington          | I/UCRC Phase III University of TX Arlington: Center for Energy-Smart Electronic System (ES2)   | 50                                | \$2,539                      | \$1,447                   | \$3,987               |
| Sammakia, Dr. Bahgat G       | SUNY Applied Materials Research Institute | Design, Develop and Demonstrate a True 3D Packaging  | 25                                | \$31                         | \$18                      | \$49                  |
| Sammakia, Dr. Bahgat G       | Purdue University                         | USPAE Proposal to CIR CS-20-1302 for Lead Free Defense Electronics Subagreement under the Advanced Technology international Prime Agreement No. 2021-432 | 50                                | \$13,521                     | \$7,707                   | \$21,228              |
| Sammakia, Dr. Bahgat G       | National Science Foundation               | IUCRC Phase III Binghamton University: Center for Energy-Smart Electronic Systems (ES2)  | 50                                | \$3,919                      | \$2,234                   | \$6,154               |
| Sammakia, Dr. Bahgat G       | National Science Foundation               | PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices   | 25                                | \$1,273                      | \$0                       | \$1,273               |
| Sammakia, Dr. Bahgat G       | National Science Foundation               | PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices   | 25                                | \$8,209                      | \$4,405                   | \$12,613              |
| Sammakia, Dr. Bahgat G       | Cornell University                        | NSF I-Corps Hub (Track 1): Interior Northeast  | 25                                | \$5,420                      | \$1,409                   | \$6,829               |
| Sammakia, Dr. Bahgat G       | Applied Materials                         | Design, Develop and Demonstrate a True 3D Packaging  | 25                                | \$7,652                      | \$4,224                   | \$11,876              |

| <u>Investigator</u>    | <u>Sponsor Name</u>                       | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Sammakia, Dr. Bahgat G | Purdue University                         | Sammakia 2020 SRC CHIRP: Design, Fabrication, and Testing of Metal Porous Media for Thermal Capacitor and Immersion Cooling Applications                         | 100                               | \$20,959                     | \$11,947                  | \$32,906              |
| Schiffres, Dr. Scott   | National Science Foundation               | CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing   | 100                               | \$12,909                     | \$7,358                   | \$20,268              |
| Schiffres, Dr. Scott   | SUNY Applied Materials Research Institute | Design, Develop and Demonstrate a True 3D Packaging  | 25                                | \$31                         | \$18                      | \$49                  |
| Schiffres, Dr. Scott   | Purdue University                         | Radiation-Hard Microelectronics Workforce Development Consortium Subagreement No. 13000844-021   | 33                                | \$25,127                     | \$13,590                  | \$38,717              |
| Schiffres, Dr. Scott   | National Science Foundation               | PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices   | 50                                | \$2,547                      | \$0                       | \$2,547               |
| Schiffres, Dr. Scott   | National Science Foundation               | PFI-TTT: Enhanced Electronic Cooling via 3D Printing from Additive Laser Fabrication of Heat Removal Devices   | 50                                | \$16,417                     | \$8,809                   | \$25,227              |
| Schiffres, Dr. Scott   | Applied Materials                         | Design, Develop and Demonstrate a True 3D Packaging  | 25                                | \$7,652                      | \$4,224                   | \$11,876              |
| Schiffres, Dr. Scott   | National Science Foundation               | CAREER: Intermetallic Interfacial Thermal Transport for Advanced Electronics Manufacturing   | 100                               | \$385                        | \$0                       | \$385                 |
| Schiffres, Dr. Scott   | US Department of Commerce                 | Novel In-situ Thermal Property Mapping to Study Powder Feedstock Aging and Laser Powder Bed Fusion   | 34                                | \$33,712                     | \$12,909                  | \$46,621              |
| Schiffres, Dr. Scott   | Mallika Ashwin Maya                       | Battery Energy Storage System (BESS) with Three Phase Grid Integrated Inverter Using 3D Printed Magnetics Components with Nanocrystalline Soft Magnetic Material | 50                                | \$1,323                      | \$754                     | \$2,077               |
| Schiffres, Dr. Scott   | National Science Foundation               | I-Corps: Additive Laser Metal Deposition onto Silicon for Enhanced Electronics Cooling   | 100                               | \$1,419                      | \$158                     | \$1,576               |

| <u>Investigator</u>      | <u>Sponsor Name</u>                               | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Towfighian, Dr. Shahrzad | National Science Foundation                       | MEMS High Voltage Triboelectric Levitation: A Generactuator  | 100                               | \$3,019                      | \$0                       | \$3,019               |
| Towfighian, Dr. Shahrzad | National Science Foundation                       | MEMS High Voltage Triboelectric Levitation: A Generactuator  | 100                               | \$76,919                     | \$41,099                  | \$118,018             |
| Towfighian, Dr. Shahrzad | National Inst of Arthritis Musculoskeletal & Skin | Self-Powered Load Sensors for Total Knee Replacement Health Monitoring   | 100                               | \$56,366                     | \$25,289                  | \$81,655              |
| Towfighian, Dr. Shahrzad | Empire State Development Corp                     | Soft ElectroNic Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)   | 50                                | \$119,706                    | \$10,031                  | \$129,737             |
| Towfighian, Dr. Shahrzad | Flex Tech Alliance                                | Soft ElectroNic Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)   | 50                                | \$270,357                    | \$3,534                   | \$273,891             |
| Wang, Dr. Hao            | Charge CCCV                                       | Unrestricted Research Support  | 100                               | \$2,342                      | \$351                     | \$2,693               |
| Yong, Dr. Xin Frank      | National Institute of General Medical Sciences    | Small-molecule membrane interactions as a driver of bacterial outer membrane vesicle biogenesis across species                                       | 50                                | \$39,074                     | \$19,739                  | \$58,812              |
| Yong, Dr. Xin Frank      | National Science Foundation                       | Capillary-Assisted Printing of Structured Colloidal Monolayers   | 34                                | \$26,438                     | \$13,054                  | \$39,492              |
| Yong, Dr. Xin Frank      | National Science Foundation                       | Capillary-Assisted Printing of Structured Colloidal Monolayers   | 25                                | \$4,352                      | \$2,481                   | \$6,833               |
| Yong, Dr. Xin Frank      | National Science Foundation                       | Collaborative Research: Understanding "wild-type" nanoplastic uptake in single microalgae cells with florescence tracking and computational modeling | 100                               | \$42,987                     | \$17,662                  | \$60,649              |
| Yu, Dr. Kaiyan           | IBM Corporation                                   | Ray -F2R-FL: Ray Based Functional Regression with Federated Learning   | 20                                | \$7,099                      | \$0                       | \$7,099               |
| Yu, Dr. Kaiyan           | National Science Foundation                       | CAREER: Simultaneous and Independent Control of Nanostructured Objects Through the Use of Coupled External Electric Fields                           | 100                               | \$68,314                     | \$36,743                  | \$105,057             |

| <u>Investigator</u> | <u>Sponsor Name</u>                   | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|---------------------------------------|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Yu, Dr. Kaiyan      | State University of New York          | Ray-based Functional Regression with Federated Learning  | 20                                | \$6,759                      | \$0                       | \$6,759               |
| Zhang, Dr. Pu       | National Science Foundation           | CAREER: Electro-Mechanical Behaviors of Soft Conductive Composites Embedded with Liquid Metal Fiber Networks                                       | 100                               | \$10,551                     | \$5,465                   | \$16,016              |
| Zhang, Dr. Pu       | Advanced Cooling Technologies         | Polymer-Based Conformal Space Radiation Shield with Thermal Management Manufactured by Five-Axis 3D Printing Platform- Prime Contract:DE-SC0022897 | 100                               | \$19,456                     | \$10,541                  | \$29,996              |
| Zhou, Dr. Guangwen  | US Department of Energy               | In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys   | 100                               | \$105,117                    | \$55,525                  | \$160,642             |
| Zhou, Dr. Guangwen  | US Department of Commerce             | Novel In-situ Thermal Property Mapping to Study Powder Feedstock Aging and Laser Powder Bed Fusion   | 33                                | \$32,720                     | \$12,530                  | \$45,250              |
| Zhou, Dr. Guangwen  | National Science Foundation           | Collaborative Research: Coordinated In-Situ Dynamic Experiments and Atomistic Modeling of Surface Segregation in Alloys                            | 100                               | \$57,343                     | \$30,490                  | \$87,833              |
| Zhou, Dr. Guangwen  | Pacific Northwest National Laboratory | Design, Synthesis, and Assembly of Biomimetic Materials with Novel Functionality, Conducted in Richland, WA, USA                                   | 100                               | \$19,242                     | \$4,752                   | \$23,994              |
| Zhou, Dr. Guangwen  | National Science Foundation           | MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU)  | 10                                | \$7,040                      | \$0                       | \$7,040               |

**Department Total: \$2,705,906**

**020 Pharmaceutical Sciences**

|                   |  |   |    |          |          |          |
|-------------------|--|---|----|----------|----------|----------|
| Brooks, Dr. Tracy | National Cancer Institute                      | Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4                  | 50 | \$26,794 | \$15,273 | \$42,067 |
| Brooks, Dr. Tracy | National Institute of General Medical Sciences | Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications | 25 | \$65,935 | \$25,802 | \$91,738 |



| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                         | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|--|--|--|-------------------------------------|----------------------------------|------------------------------|
| Brooks, Dr. Tracy          | National Institute of General Medical Sciences     | Legumain to the rescue: A new ADC linker strategy to address the limitations of cathepsin cleavage                             | 50                                       | \$84,585                            | \$47,827                         | \$132,412                    |
| Davis, Dr. Tony D          | National Institute of General Medical Sciences     | Interrogation of Microbial Natural Product mEthyltransferases  | 100                                      | \$67,982                            | \$38,677                         | \$106,659                    |
| Edwards, Dr. Katie         | University of Western Ontario                      | Effects of dietary thiaminase on two strains of lake trout   | 100                                      | \$4,521                             | \$226                            | \$4,747                      |
| Hathout, Dr. Yetrib        | US Army Medical Research Acquisition Activity      | Clinical Utility of Serum Protein Biomarkers in Very Young Duchenne Muscular Dystrophy Boys                                    | 100                                      | \$19                                | (\$19)                           | \$0                          |
| Hathout, Dr. Yetrib        | Childrens Research Institute                       | Bridging Pharmacodynamic Biomarkers to Clinical Outcomes in Pediatric Inflammatory Diseases                                    | 100                                      | \$644                               | \$367                            | \$1,012                      |
| Hathout, Dr. Yetrib        | National Inst of Neurological Disorders & Stroke   | R61/R33 Resubmission (Biomarker Signatures for Duchenne Muscular Dystrophy)  | 100                                      | \$183,171                           | \$83,095                         | \$266,266                    |
| Hoffman, Dr. Eric          | US Army Medical Research Acquisition Activity      | Genetic Modifiers of Treatment Response in DMD   | 100                                      | \$30,308                            | \$17,276                         | \$47,584                     |
| Jusko, Dr. William J       | US Army Medical Research Acquisition Activity      | Genetic Modifiers of Treatment Response in DMD   | 100                                      | \$0                                 | \$14,250                         | \$14,250                     |
| Morales, Dr. Melissa       | Myositis Association                               | Improving muscle weakness by blocking the Interferon signature with anti-viral proteins  | 50                                       | \$11,072                            | \$886                            | \$11,958                     |
| Nagaraju, Dr. Kanneboyina  | Cornell University                                 | NSF I-Corps Hub (Track 1): Interior Northeast  | 25                                       | \$5,420                             | \$1,409                          | \$6,829                      |
| Nagaraju, Dr. Kanneboyina  | Parent Project for Muscular Dystrophy Research Inc | Targeting the innate immune system to block acute inflammatory and chronic immune responses to transgene and AAV vector in DMD | 100                                      | \$49,348                            | \$0                              | \$49,348                     |
| Nagaraju, Dr. Kanneboyina  | Myositis Association                               | Improving muscle weakness by blocking the Interferon signature with anti-viral proteins  | 50                                       | \$11,072                            | \$886                            | \$11,958                     |

| <u><i>Investigator</i></u>      | <u><i>Sponsor Name</i></u>                         | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|---------------------------------|--|---|--|-------------------------------------|----------------------------------|------------------------------|
| Nagaraju, Dr. Kanneboyina       | CURE JM Foundation                                 | Testing and screening potential compounds for efficacy in a mouse model of myositis and the effect of Type 1 Interferon on muscle function and weakness in myositis | 100                                      | \$48,898                            | \$0                              | \$48,898                     |
| Nagaraju, Dr. Kanneboyina       | Foundation to Eradicate Duchenne                   | Immune response to dystrophin after Etiperson treatment in Duchenne Muscular Dystrophy Children   | 100                                      | \$11,050                            | \$1,105                          | \$12,155                     |
| Tumey, Dr. L Nathan             | Heidelberg Pharma Research GmbH                    | Optimization of ADCs for the Treatment of Cancer  | 100                                      | \$13,620                            | \$7,764                          | \$21,384                     |
| Tumey, Dr. L Nathan             | National Cancer Institute                          | Synthesis and Optimization of antibody: DNAi conjugates targeting the MYC G4  | 50                                       | \$26,794                            | \$15,273                         | \$42,067                     |
| Tumey, Dr. L Nathan             | National Institute of Allergy & Infectious Disease | Cell-specific blockage of TLR activation: A new strategy for addressing inflammatory disorders  | 100                                      | \$28,434                            | \$15,659                         | \$44,093                     |
| Tumey, Dr. L Nathan             | National Institute of Allergy & Infectious Disease | "Molecular whack-a-mole": Targeting Transmembrane- TNFa for the Delivery of Anti-Inflammatory Drgus   | 100                                      | \$34,511                            | \$19,122                         | \$53,634                     |
| Tumey, Dr. L Nathan             | National Institute of General Medical Sciences     | Exploiting the Hydrophobic Glycosyl Pocket of IgG1 for Imaging and Drug Delivery Applications   | 50                                       | \$131,871                           | \$51,605                         | \$183,475                    |
| Tumey, Dr. L Nathan             | National Institute of General Medical Sciences     | Legumain to the rescue: A new ADC linker strategy to address the limitations of cathepsin cleavage  | 50                                       | \$84,585                            | \$47,827                         | \$132,412                    |
| Tumey, Dr. L Nathan             | National Institute of General Medical Sciences     | Mitigating ADA Through Site-specific Conjugation Technology   | 100                                      | \$10,312                            | \$0                              | \$10,312                     |
| Zhang, Dr. Tao                  | University of North Texas Health Science Center    | Novel Formulation Technology to Enhance Oral Absorption of Water-insoluble Drugs  | 100                                      | \$5,107                             | \$2,911                          | \$8,018                      |
| Zhang, Dr. Tao                  | US Food and Drug Administration                    | To measure permeability of BCRP drug substrates and establish mechanistic IVIVE and PBPK model to predict milk drug transfer  | 100                                      | \$106,261                           | \$60,569                         | \$166,830                    |
| <b><i>Department Total:</i></b> |  |   |  | <b><i>\$1,510,107</i></b>           |                                  |                              |

***020 Pharmacy Practice***

| <u>Investigator</u>    | <u>Sponsor Name</u>                                  | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|------------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Eggleston, Dr. William | NYS Chapter of American College of Clinical Pharmacy | Evaluating the Impact of an at Home Medication Disposal System on Safe Medication Disposal                                      | 100                               | \$826                        | \$0                       | \$826                 |
| Iacobucci, Jennifer    | SUNY System Administration                           | Research Seed Grant Program   | 100                               | \$773                        | \$0                       | \$773                 |
| Kufel, Dr. Wesley      | NYS Chapter of American College of Clinical Pharmacy | Impact of Vancomycin Plus Ceftazidime Combination Therapy for Persistent Methicillin-Resistant Staphylococcus Aureus Bacteremia | 100                               | \$100                        | \$0                       | \$100                 |

**Department Total: \$1,699**

**020 Physics Applied Physics & Astronomy**

|                        |                                   |  |     |          |          |          |
|------------------------|-----------------------------------|--|-----|----------|----------|----------|
| Aynajian, Dr. Pegor    | National Science Foundation       | CAREER: Visualizing Emergent Electronic States Near Quantum Phase Transitions  | 100 | \$8,169  | \$4,656  | \$12,826 |
| Cotts, Dr. Eric        | Universal Instruments Corporation | Electromigration Characterization of Low Temperature Solder Alloys   | 100 | \$5,780  | \$1,503  | \$7,283  |
| Cotts, Dr. Eric        | Universal Instruments Corporation | Testing Agreement: Failure Analysis  | 100 | \$11,111 | \$2,889  | \$14,000 |
| Cotts, Dr. Eric        | Universal Instruments Corporation | SnBi and SnAgCu based solder joints during current stressing: Identifying microstructural correlations with mechanical reliability performance | 100 | \$25,397 | \$6,603  | \$32,000 |
| Kolmogorov, Dr. Alexey | National Science Foundation       | Theory-Guided Discovery of Tin-Based Materials   | 100 | \$10,378 | \$5,916  | \$16,294 |
| Kolmogorov, Dr. Alexey | National Science Foundation       | EAGER: SUPER: Collaborative Research: Ab Initio Engineering of Doped-Covalent-Bond Superconductors   | 50  | \$32,748 | \$17,709 | \$50,457 |
| Lawler, Dr. Michael    | National Science Foundation       | Collaborative Research: Machine Learning Methods for Multi-Disciplinary Multi-Scale Problems   | 100 | \$13,988 | \$7,705  | \$21,692 |
| Lawler, Dr. Michael    | National Science Foundation       | Collaborative Research: Integrating Physics and Generative Machine Learning Models for Inverse Materials Design                                | 100 | \$32,179 | \$15,377 | \$47,556 |

| <u>Investigator</u>       | <u>Sponsor Name</u>               | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|-----------------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Lee, Dr. Wei-Cheng        | Georgia Institute of Technology   | MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)                               | 100                               | \$132,562                    | \$67,479                  | \$200,041             |
| Margine, Dr. Elena Roxana | National Science Foundation       | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials   | 20                                | \$49,129                     | \$0                       | \$49,129              |
| Margine, Dr. Elena Roxana | National Science Foundation       | EAGER: SUPER: Collaborative Research: Ab Initio Engineering of Doped-Covalent-Bond Superconductors  | 50                                | \$32,748                     | \$17,709                  | \$50,457              |
| Margine, Dr. Elena Roxana | National Science Foundation       | Towards Ab Initio Prediction of Superconducting Properties  | 100                               | \$45,570                     | \$25,975                  | \$71,545              |
| Margine, Dr. Elena Roxana | University of Texas at Austin     | An Interoperable Software Ecosystem for Many-Body Electronic Structure Calculations   | 100                               | \$46,117                     | \$26,287                  | \$72,404              |
| Margine, Dr. Elena Roxana | National Science Foundation       | Institutional Partnership to Create Successful Student Transition in Smart Energy & Materials   | 20                                | \$38,266                     | \$7,391                   | \$45,657              |
| Mativetsky, Dr. Jeffrey   | National Science Foundation       | CAREER: Charge Photogeneration and Transport in Organic Semiconductor Nanowires   | 100                               | \$556                        | \$305                     | \$861                 |
| Mativetsky, Dr. Jeffrey   | National Science Foundation       | REU Site: Renewable Energy Generation and Storage   | 100                               | \$34,024                     | \$10,846                  | \$44,870              |
| Mativetsky, Dr. Jeffrey   | Universal Instruments Corporation | Universal Instruments Sponsored Research: Consortium Solder Interconnect Studies  | 100                               | \$5,219                      | \$1,234                   | \$6,453               |
| Piper, Dr. Louis          | Georgia Institute of Technology   | MURI17: Cross-disciplinary Electronic-ionic Research Enabling Biologically Realistic Autonomous Learning (CEREBRAL)                               | 100                               | \$39,860                     | \$22,720                  | \$62,580              |
| Piper, Dr. Louis          | National Science Foundation       | MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU) | 60                                | \$42,240                     | \$0                       | \$42,240              |
| Piper, Dr. Louis          | National Science Foundation       | Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries  | 33                                | \$24,009                     | \$12,961                  | \$36,970              |

| <u>Investigator</u>      | <u>Sponsor Name</u>                        | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Shim, Dr. Bonggu         | National Science Foundation                | Study of Wavelength Dependence of Plasma Collision Dynamics and Ionization Mechanism in Laser Solid Matter Interactions  | 100                               | \$24,402                     | \$13,909                  | \$38,311              |
| Shim, Dr. Bonggu         | US Air Force Office of Scientific Research | Spatio-temporal visualization and control of nonlinear propagation and phase matching for high-order harmonic generation | 100                               | \$60,422                     | \$32,575                  | \$92,997              |
| Smeu, Dr. Manuel         | National Science Foundation                | Rational Design of Oxide Cathode Coating for High Performance Li-ion Batteries   | 33                                | \$24,009                     | \$12,961                  | \$36,970              |
| <b>Department Total:</b> |  |  |                                   | <b>\$1,053,595</b>           |                           |                       |

**020 Political Science**

|                          |                       |  |     |                |     |         |
|--------------------------|-----------------------|--|-----|----------------|-----|---------|
| Karakoc, Dr. Ekrem       | University of Calgary | International Business in the Middle East and North Africa MENA: danger zones or the land of opportunity | 100 | \$1,651        | \$0 | \$1,651 |
| <b>Department Total:</b> |                       |  |     | <b>\$1,651</b> |     |         |

**020 Psychology**

|                                  |   |  |     |          |         |          |
|----------------------------------|---|--|-----|----------|---------|----------|
| Balderrama-Durbin, Dr. Christina | National Institute for Alcohol Abuse & Alcoholism | An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care   | 50  | \$18,623 | \$6,276 | \$24,899 |
| Balderrama-Durbin, Dr. Christina | Wright State University                           | Lesbian, Gay, and Bisexual Couples in the Military: A post DADT Examination of Relationship Health, Perceived Community Acceptance and Mission Readiness Subaward No. 670766-1 | 100 | \$6,200  | \$3,534 | \$9,733  |
| Balderrama-Durbin, Dr. Christina | Wright State University                           | Up-Armoring At-Risk Military Couples Research Subcontract No. 670438-1   | 100 | \$13,677 | \$7,796 | \$21,472 |
| Bishop, Dr. Christopher          | Consynance  | Pilot study with CSTI-200 to test efficacy against L-DOPA- induced dyskinesia in a rat model of Parkinson's disease  | 100 | \$867    | \$217   | \$1,084  |

| <u>Investigator</u>     | <u>Sponsor Name</u>                               | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|-------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Bishop, Dr. Christopher | University of North Texas Health Science Center   | Increasing Nigral Tyrosine Hydroxylase Expression as a Mechanism of Exercise-Mediated Recovery: Evaluation in Toxin and Rat Parkinson's Disease Genetic Models HS763-0000154195/HS763-0000154199 | 100                               | \$16,398                     | \$9,347                   | \$25,744              |
| Bishop, Dr. Christopher | National Science Foundation                       | I-Corps: Repurposing Serotonergic Compounds for Improved Treatment of Parkinson's Disease  | 100                               | \$11,959                     | \$1,329                   | \$13,288              |
| Bishop, Dr. Christopher | National Inst of Neurological Disorders & Stroke  | Interrogating maladaptive serotonin raphe-striatal plasticity in L-DOPA-induced dyskinesia   | 100                               | \$352,935                    | \$62,335                  | \$415,270             |
| Bishop, Dr. Christopher | Michael J Fox Foundation                          | Chemogenetic and Pharmacological Targeting of the Raphe-Cortical Pathway to Reduce the Development and Expression of L-DOPA-induced Psychosis  | 100                               | \$13,365                     | \$864                     | \$14,229              |
| Bishop, Dr. Christopher | Howard Hughes Medical Institute                   | Howard Hughes Support - Freshman Research Immersion (FRI) Models   | 50                                | \$887                        | \$0                       | \$887                 |
| Bishop, Dr. Christopher | Melior Discovery Incorporated                     | Melior Discovery Materials Testing Agreement   | 100                               | \$6,395                      | \$1,599                   | \$7,994               |
| Cameron, Dr. Nicole M   | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022   | 5                                 | \$963                        | \$545                     | \$1,509               |
| Coles, Dr. Meredith     | Multiple Sponsors                                 | Income from Services of Binghamton Anxiety Clinic  | 100                               | \$9,100                      | \$1,365                   | \$10,465              |
| Deak, Dr. Terrence      | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023   | 90                                | \$19,931                     | \$11,361                  | \$31,292              |
| Deak, Dr. Terrence      | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023   | 75                                | \$96,897                     | \$55,030                  | \$151,926             |
| Deak, Dr. Terrence      | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022   | 90                                | \$25,029                     | \$14,267                  | \$39,296              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                        | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Deak, Dr. Terrence         | National Institute for Alcohol Abuse & Alcoholism | Development and Neuroadaptations in Alcohol and Addiction  | 34                                       | \$37,473                            | \$2,998                          | \$40,471                     |
| Deak, Dr. Terrence         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022   | 75                                       | \$20,714                            | \$11,807                         | \$32,520                     |
| Di Lorenzo, Dr. Patricia M | National Inst on Deafness & Other Comm Disorders  | Temporal Coding in the Gustatory System of the Brain   | 100                                      | \$25,871                            | \$12,760                         | \$38,631                     |
| Di Lorenzo, Dr. Patricia M | National Institute of General Medical Sciences    | SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)  | 50                                       | \$96,596                            | \$6,682                          | \$103,278                    |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022   | 25                                       | \$6,905                             | \$3,936                          | \$10,840                     |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023   | 30                                       | \$20,090                            | \$11,452                         | \$31,542                     |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022   | 30                                       | \$6,347                             | \$3,618                          | \$9,965                      |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF  | 50                                       | \$15,915                            | \$6,655                          | \$22,570                     |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF  | 50                                       | \$47,985                            | \$27,352                         | \$75,337                     |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Impact of Prenatal Ethanol on BLA Synaptic Plasticity  | 50                                       | \$26,633                            | \$13,238                         | \$39,871                     |
| Diaz, Dr. Marvin R         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023   | 25                                       | \$32,299                            | \$18,343                         | \$50,642                     |
| Gaspelin, Dr. Nicholas     | National Science Foundation                       | CAREER: Understanding the Relationship of Covert and Overt Attention Using Concurrent EEG and Eye Tracking | 100                                      | \$67,753                            | \$38,619                         | \$106,372                    |

| <u>Investigator</u>            | <u>Sponsor Name</u>                             | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Gerhardstein, Dr. Peter C      | National Institute of Mental Health             | Attentional Biases for Affective Cues in Infants of Depressed Mothers                         | 10                                | \$194                        | \$111                     | \$305                 |
| Gibb, Dr. Brandon E            | National Institute of Mental Health             | Attentional Biases for Affective Cues in Infants of Depressed Mothers                         | 90                                | \$1,749                      | \$997                     | \$2,746               |
| Gibb, Dr. Brandon E            | National Institute of Mental Health             | Attentional Biases for Affective Cues as a Mechanism of Risk in Children of Depressed Mothers | 100                               | \$373,376                    | \$133,832                 | \$507,208             |
| Gillis Mattson, Dr. Jennifer M | Multiple Sponsors                               | Children's Unit Special Programs/ Institute for Child Development                             | 100                               | \$25,003                     | \$3,751                   | \$28,754              |
| Gillis Mattson, Dr. Jennifer M | NYS Education Department                        | CARD Albany and NYS Regional Center(s) for Autism Spectrum Disorders 21-22                    | 100                               | \$4,355                      | \$348                     | \$4,704               |
| Gillis Mattson, Dr. Jennifer M | Order of the Eastern Star of New York           | Autism Research   | 100                               | \$634                        | \$95                      | \$729                 |
| Gillis Mattson, Dr. Jennifer M | University of Massachusetts Chan Medical School | Helping Youth on the Path to Employment (HYPE) Creating Economic Self Sufficiency Year 2      | 50                                | \$582                        | \$151                     | \$733                 |
| Gillis Mattson, Dr. Jennifer M | NYS Education Department                        | CARD Albany and Regional Center(s) for Autism Spectrum Disorders 22-23                        | 100                               | \$7,133                      | \$571                     | \$7,704               |
| Gillis Mattson, Dr. Jennifer M | NYS Education Department                        | CARD Albany and Regional Center(s) for Autism Spectrum Disorders                              | 100                               | \$7,568                      | \$605                     | \$8,173               |
| Gillis Mattson, Dr. Jennifer M | Multiple Sponsors                               | ICD 'Infrastructure'  | 100                               | \$4,033                      | \$605                     | \$4,638               |
| Gillis Mattson, Dr. Jennifer M | Multiple Sponsors                               | Children's Unit for Treatment and Evaluation 2022-2023  | 100                               | \$2,917,319                  | \$437,598                 | \$3,354,917           |
| Gillis Mattson, Dr. Jennifer M | Multiple Sponsors                               | School District Income for SEDCAR/IDEA Funding  | 100                               | \$114,911                    | \$9,193                   | \$124,104             |



| <u>Investigator</u>            | <u>Sponsor Name</u>                                 | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Gillis Mattson, Dr. Jennifer M | Multiple Sponsors                                   | 2021-2022 Children's Unit for Treatment and Evaluation   | 100                               | \$436,018                    | \$65,403                  | \$501,420             |
| Harding, Dr. Thomas            | ARK Psychology LLC                                  | Clinical Placement Agreement Between Ark Psychology PLLC and the Research Foundation for SUNY (for Fiona Sleight)                    | 100                               | \$17,666                     | \$0                       | \$17,666              |
| Harding, Dr. Thomas            | ARK Psychology LLC                                  | Clinical Placement Agreement Between Ark Psychology PLLC and the Research Foundation for SUNY (for Melissa Gates)                    | 100                               | \$19,717                     | \$0                       | \$19,717              |
| Harding, Dr. Thomas            | Childrens Home of Wyoming Conference                | Clinical Placement Agreement Between Children's Home of Wyoming Conference and the Research Foundation for SUNY (for Kelly Buchanan) | 100                               | \$11,106                     | \$0                       | \$11,106              |
| Harding, Dr. Thomas            | United Health Services Hospitals Incorporated       | Clinical Placement for Heather Zyla  | 100                               | \$21,287                     | \$0                       | \$21,287              |
| Jentsch, Dr. James David       | National Institute for Alcohol Abuse & Alcoholism   | Developmental Exposure Alcohol Research Center 2022-2023   | 5                                 | \$1,107                      | \$631                     | \$1,738               |
| Jentsch, Dr. James David       | Regents of the University of California Los Angeles | Genetic Pathways for impulsivity and drug reinforcement: DNA and transcriptome variation in mice (2021-2022)                         | 100                               | \$7,689                      | \$4,383                   | \$12,071              |
| Jentsch, Dr. James David       | National Institute on Drug Abuse                    | Intersecting genetic risk for extreme cocaine self-administration with dopamine neurotransmission                                    | 70                                | \$26,331                     | \$2,106                   | \$28,438              |
| Jentsch, Dr. James David       | National Institute for Alcohol Abuse & Alcoholism   | Developmental Exposure Alcohol Research Center 2022-2023   | 100                               | \$21,426                     | \$0                       | \$21,426              |
| Jentsch, Dr. James David       | National Institute for Alcohol Abuse & Alcoholism   | Developmental Exposure Alcohol Research Center 2022-2023   | 70                                | \$46,878                     | \$26,720                  | \$73,598              |
| Jentsch, Dr. James David       | National Institute for Alcohol Abuse & Alcoholism   | Developmental Exposure Alcohol Research Center 2021-2022   | 100                               | \$37,055                     | \$0                       | \$37,055              |
| Jentsch, Dr. James David       | National Institute for Alcohol Abuse & Alcoholism   | Developmental Exposure Alcohol Research Center 2021-2022   | 5                                 | \$1,391                      | \$793                     | \$2,183               |

| <u>Investigator</u>       | <u>Sponsor Name</u>                               | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Jentsch, Dr. James David  | National Institute for Alcohol Abuse & Alcoholism | Development and Neuroadaptations in Alcohol and Addiction   | 33                                | \$36,371                     | \$2,910                   | \$39,280              |
| Jentsch, Dr. James David  | Jackson Laboratory                                | Center for Systems Neurogenetics of Addiction Subaward 210247-0623-06                                     | 75                                | \$32,207                     | \$18,358                  | \$50,565              |
| Jentsch, Dr. James David  | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 70                                | \$14,810                     | \$8,442                   | \$23,252              |
| Karkhanis, Dr. Anushree N | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 100                               | \$5,823                      | \$3,319                   | \$9,143               |
| Karkhanis, Dr. Anushree N | National Institute on Drug Abuse                  | Intersecting genetic risk for extreme cocaine self-administration with dopamine neurotransmission         | 30                                | \$11,285                     | \$903                     | \$12,188              |
| Karkhanis, Dr. Anushree N | National Institute for Alcohol Abuse & Alcoholism | Mechanisms of rostrocaudal differences in accumbal kappa opioid receptor effects on ethonal drinking      | 100                               | \$267,384                    | \$83,700                  | \$351,084             |
| Karkhanis, Dr. Anushree N | National Institute for Alcohol Abuse & Alcoholism | Impact on early life stress on accumbal kappa opioid signaling and ethonal intake                         | 100                               | \$10,203                     | \$816                     | \$11,019              |
| Karkhanis, Dr. Anushree N | Jackson Laboratory                                | Center for Systems Neurogenetics of Addiction Subaward 210247-0623-06                                     | 25                                | \$10,736                     | \$6,119                   | \$16,855              |
| Mastroleo, Dr. Nadine     | Brown University                                  | Behavioral Science and Biostatistics Resource Code for Alcohol-HIV Research Federal Award 5U24AA022003-06 | 100                               | \$9,476                      | \$5,212                   | \$14,688              |
| Mastroleo, Dr. Nadine     | National Institute for Alcohol Abuse & Alcoholism | An Integrated Brief Alcohol and PTSD Intervention for Veterans in Primary Care                            | 50                                | \$18,623                     | \$6,276                   | \$24,899              |
| Mastroleo, Dr. Nadine     | Brown University                                  | Enhancing the Efficacy and Duration of a Brief Alcohol Intervention Using Self-Affirmation                | 100                               | \$22,876                     | \$13,039                  | \$35,915              |
| Savage, Dr. Lisa M        | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 100                               | \$25,487                     | \$14,528                  | \$40,015              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                        | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|---|--|-------------------------------------|----------------------------------|------------------------------|
| Savage, Dr. Lisa M         | National Institute of General Medical Sciences    | SUNY UPSTATE BRIDGES TO THE BACCALAUREATE PROGRAM (SUBBP)   | 50                                       | \$96,596                            | \$6,682                          | \$103,278                    |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023  | 5  | \$1,717                             | \$979                            | \$2,696                      |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023  | 100                                      | \$77,864                            | \$44,383                         | \$122,247                    |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023  | 5  | \$1,107                             | \$631                            | \$1,738                      |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | 7/8 NADIA U01 Recovery of Adolescent Alcohol Disruption of Basal Forebrain-Cortical Projection Circuits Year 3 of 5 | 100                                      | \$64,032                            | \$36,498                         | \$100,531                    |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 5  | \$963                               | \$545                            | \$1,509                      |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 5  | \$1,391                             | \$793                            | \$2,183                      |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | Development and Neuroadaptations in Alcohol and Addiction   | 33                                       | \$36,371                            | \$2,910                          | \$39,280                     |
| Savage, Dr. Lisa M         | National Institute for Alcohol Abuse & Alcoholism | 7/8 NADIA U01 Recovery of Adolescent Alcohol Disruption of Basal Forebrain-Cortical Projection Circuits             | 100                                      | \$56,080                            | \$31,966                         | \$88,046                     |
| Varlinskaia, Dr. Elena I   | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023  | 10                                       | \$3,435                             | \$1,958                          | \$5,393                      |
| Varlinskaia, Dr. Elena I   | National Institute for Alcohol Abuse & Alcoholism | Impact of Prenatal Ethanol on BLA Synaptic Plasticity   | 50                                       | \$26,633                            | \$13,238                         | \$39,871                     |
| Varlinskaia, Dr. Elena I   | National Institute for Alcohol Abuse & Alcoholism | Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF   | 50                                       | \$47,985                            | \$27,352                         | \$75,337                     |

| <u>Investigator</u>            | <u>Sponsor Name</u>                               | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Varlinskaia, Dr. Elena I       | National Institute for Alcohol Abuse & Alcoholism | Prenatal Alcohol and Anxiety: An Ontogenetic Role for CRF   | 50                                | \$15,915                     | \$6,655                   | \$22,570              |
| Varlinskaia, Dr. Elena I       | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 25                                | \$9,799                      | \$5,585                   | \$15,384              |
| Varlinskaia, Dr. Elena I       | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 5                                 | \$963                        | \$545                     | \$1,509               |
| Varlinskaia, Dr. Elena I       | National Institute for Alcohol Abuse & Alcoholism | 2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety | 50                                | \$33,709                     | \$19,214                  | \$52,923              |
| Varlinskaia, Dr. Elena I       | National Institute for Alcohol Abuse & Alcoholism | 2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex-and Exposure Timing-Specific Anxiety  | 50                                | \$54,505                     | \$31,068                  | \$85,572              |
| Varlinskaia, Dr. Elena I       | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023  | 25                                | \$24,793                     | \$13,528                  | \$38,320              |
| Varodayan, Dr. Florence Prabha | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023  | 100                               | \$24,914                     | \$14,201                  | \$39,114              |
| Varodayan, Dr. Florence Prabha | National Institute for Alcohol Abuse & Alcoholism | Alcohol-induced neuroadaptation of prefrontal cortical projections  | 100                               | \$101,248                    | \$55,295                  | \$156,544             |
| Werner, Dr. David F.           | National Institute for Alcohol Abuse & Alcoholism | Role of Neural Activity and Perineuronal Nets in Adolescent Intermittent Ethanol- Induced Social Anxiety    | 100                               | \$28,994                     | \$0                       | \$28,994              |
| Werner, Dr. David F.           | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 75                                | \$29,397                     | \$16,756                  | \$46,153              |
| Werner, Dr. David F.           | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2021-2022  | 85                                | \$16,379                     | \$9,269                   | \$25,648              |
| Werner, Dr. David F.           | National Institute for Alcohol Abuse & Alcoholism | 2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex- and Exposure Timing-Specific Anxiety | 50                                | \$33,709                     | \$19,214                  | \$52,923              |

| <u>Investigator</u>      | <u>Sponsor Name</u>                               | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|--------------------------|---|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Werner, Dr. David F.     | National Institute for Alcohol Abuse & Alcoholism | 2/8 NADIA U01 Adolescent Alcohol Exposure: Neural Contributors to Sex-and Exposure Timing-Specific Anxiety | 50                                | \$54,505                     | \$31,068                  | \$85,572              |
| Werner, Dr. David F.     | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023   | 75                                | \$74,378                     | \$40,583                  | \$114,961             |
| Werner, Dr. David F.     | National Institute for Alcohol Abuse & Alcoholism | Developmental Exposure Alcohol Research Center 2022-2023   | 85                                | \$29,197                     | \$16,642                  | \$45,839              |
| <b>Department Total:</b> |   |  |                                   | <b>\$8,146,588</b>           |                           |                       |

**020 Public Archaeology Facility**

|                      |  |   |     |           |          |           |
|----------------------|--|---|-----|-----------|----------|-----------|
| Miroff, Dr. Laurie E | Liberty Power                                | Phase 1B Archaeological Survey, Riga Solar Project, Village of Churchville, Monroe County, NY | 100 | \$3,227   | \$484    | \$3,712   |
| Miroff, Dr. Laurie E | NYS Education Department                     | Cultural Resources Program Year 5 of 5  | 100 | \$1,215   | \$182    | \$1,398   |
| Miroff, Dr. Laurie E | National Science Foundation                  | Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology                         | 25  | \$12,343  | \$3,128  | \$15,471  |
| Miroff, Dr. Laurie E | National Park Service                        | Urban Archeology Corps  | 100 | \$10,785  | \$1,887  | \$12,672  |
| Miroff, Dr. Laurie E | National Park Service                        | Urban Archeology Corps  | 100 | \$46,184  | \$8,082  | \$54,266  |
| Miroff, Dr. Laurie E | Multiple Sponsors                            | Miscellaneous Income from PAF Activities  | 100 | \$8,396   | \$1,259  | \$9,655   |
| Miroff, Dr. Laurie E | NYS Education Department                     | Cultural Resource Survey Program Consultant Contract  | 100 | \$218,523 | \$32,778 | \$251,302 |
| Miroff, Dr. Laurie E | McFarland and Johnson Engineers Incorporated | Task 06 - Short Environmental Assessment for Runway 3-21 Obstruction Removal and Acquisition  | 100 | \$6,503   | \$976    | \$7,479   |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>  | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Miroff, Dr. Laurie E       | Seaboard Solar  | Phase 1B Archaeological Addendum Survey (Option 1: All Subsurface Testing), Frank Long Road Solar Project, Town of Pompey, Onondaga County, New York | 100                                      | \$12,692                            | \$1,904                          | \$14,596                     |
| Miroff, Dr. Laurie E       | Liberty Power   | Phase 1B Archaeological Survey, Riga Solar Project, Village of Churchville, Monroe County, NY  | 100                                      | \$2,140                             | \$321                            | \$2,461                      |
| Miroff, Dr. Laurie E       | McFarland and Johnson Engineers Incorporated                                | Phase 1A/1B Archaeological Assessment and Archaeological Survey, Piseco Airport Project, Town of Arietta, Hamilton County, NY                        | 100                                      | \$2,040                             | \$306                            | \$2,346                      |
| Miroff, Dr. Laurie E       | NYS Education Department  | Cultural Resource Survey Program   | 100                                      | \$11,233                            | \$1,685                          | \$12,917                     |
| Miroff, Dr. Laurie E       | Onondaga County Soil and Water Conservation Dist                            | Phase 1A/1B Archaeological Survey, Munro Road Storage Project, Town of Camillus, Onondaga County, NY   | 100                                      | \$4,136                             | \$620                            | \$4,756                      |
| Miroff, Dr. Laurie E       | Parsons Engineering Science Incorporated                                    | Onondaga Lake, Hudson Farms Ecological Enhancements  | 100                                      | \$452                               | \$68                             | \$519                        |
| Miroff, Dr. Laurie E       | Seaboard Solar  | Phase 1A/1B Archaeological Survey, Frank Long Road Solar Project, Town of Pompey, Onondaga County, NY  | 100                                      | \$2,883                             | \$432                            | \$3,315                      |
| Miroff, Dr. Laurie E       | SLAM Architects Landscape Architects and Engineers Professional Corporation | Rehabilitate Physical Education Building at State University of New York at Albany   | 100                                      | \$1,747                             | \$262                            | \$2,010                      |
| Miroff, Dr. Laurie E       | Tioga County Soil and Water Conservation District                           | Phase 1A/1B Archaeological Survey and Indigenous Monitor Costs, Owego Creek Streambank Protection Project, Town of Owego, Tioga County, New York     | 100                                      | \$2,912                             | \$437                            | \$3,349                      |
| Miroff, Dr. Laurie E       | Troy Top Soil Company   | Troy Topsoil Halfmoon Mine Expansion Project, NYS DEC Assessment, Town of Halfmoon, Saratoga County, NY  | 100                                      | (\$120)                             | (\$294)                          | (\$414)                      |
| Miroff, Dr. Laurie E       | Bethel Woods Center for the Arts  | Mapping Proposal Woodstock Bindy Bazaar Project, Bethel, Sullivan County, NY   | 100                                      | \$1,090                             | \$164                            | \$1,254                      |

| <u>Investigator</u>  | <u>Sponsor Name</u>   | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Miroff, Dr. Laurie E | Village of Owego  | Phase 1 Archaeological Survey and Monitoring, 90 Temple Street Project, Village of Owego, Tioga County, NY  | 100                               | \$1,814                      | \$272                     | \$2,086               |
| Miroff, Dr. Laurie E | Yeshiva Mercaz Hatorah  | Phase 1A/1B Archaeological Survey, Yeshiva Mercaz Hatorah- Ramapo Project, Town of Ramapo, Rockland County, NY                                      | 100                               | \$1,020                      | \$153                     | \$1,173               |
| Miroff, Dr. Laurie E | Liberty Power   | Phase 1A Archaeological Assessment, Riga Solar Project (22PR05328), Village of Churchville, Monroe County, NY                                       | 100                               | \$2,387                      | \$358                     | \$2,745               |
| Miroff, Dr. Laurie E | Renovus Solar   | Phase 1A/1B Archaeological, Lower Maple Ave Solar Project, Town of Elmira, Chemung County, NY   | 100                               | \$2,713                      | \$407                     | \$3,120               |
| Miroff, Dr. Laurie E | Edgewood Environmental Consulting Limited Liability Corporation | Sellu Garage Wetland Permitting Work Order 001  | 100                               | \$2,122                      | \$318                     | \$2,440               |
| Miroff, Dr. Laurie E | Bolands Riverside Sod Farm                                      | Phase 3 Data Recovery of the Campville Boland Site (northern portion of the south parcel) Town of Owego, Tioga County, NY                           | 100                               | \$876                        | \$131                     | \$1,007               |
| Miroff, Dr. Laurie E | Bethel Woods Center for the Arts                                | Phase 1A/1B Archaeological Survey, Campgrounds at Bethel Woods Project - Phase 1 Priority Area, Town of Bethel, Sullivan County, NY                 | 100                               | \$19,591                     | \$2,939                   | \$22,529              |
| Miroff, Dr. Laurie E | C&S Companies   | Buffalo State College, Phase 1A Archaeological Assessment SUCF Project 030167-00  | 100                               | \$2,093                      | \$314                     | \$2,407               |
| Miroff, Dr. Laurie E | C&S Companies   | Cultural Resource Screening (FCC 621), Yates County South Hill Tower Project, Town of Middlesex, Yates County, NY                                   | 100                               | \$1,386                      | \$208                     | \$1,594               |
| Miroff, Dr. Laurie E | C&S Companies   | Phase 1A/ 1B Archaeological Survey (all subsurface testing- STPs of project area) Avon CSG 2 LLC Solar Project, Town of Avon, Livingston County, NY | 100                               | \$13,789                     | \$2,068                   | \$15,858              |
| Miroff, Dr. Laurie E | C&S Companies   | Cultural Resource Screening, Morehouse Cell Tower Project, Town of Morehouse, Hamilton County - NY  | 100                               | \$3,038                      | \$456                     | \$3,494               |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>          | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|-------------------------------------|---|--|-------------------------------------|----------------------------------|------------------------------|
| Miroff, Dr. Laurie E       | C&S Companies                       | Phase 1B Archaeological Survey in Connection with SUCF Project 031067-00 Buffalo State College  | 100                                      | \$2,567                             | \$385                            | \$2,952                      |
| Miroff, Dr. Laurie E       | C&S Companies                       | Phase 1A/ 1B Archaeological Survey, Palm Tree Estates Project, Town of Avon, Livingston County, NY  | 100                                      | \$5,870                             | \$881                            | \$6,751                      |
| Miroff, Dr. Laurie E       | City of Binghamton                  | Monitoring, Hawley Street Traffic Light Project, City of Binghamton   | 100                                      | \$1,669                             | \$250                            | \$1,919                      |
| Miroff, Dr. Laurie E       | Lamont Engineers                    | Shokan WMP Project, Phase 1B Archaeological Survey (estimate of 1400-1550 STPs), Town of Olive, Ulster County, NY   | 100                                      | \$43,605                            | \$6,541                          | \$50,146                     |
| Miroff, Dr. Laurie E       | Cole Trucking and Gravel            | Cole Gravel Mine Project, Phase 2 Site Examination, Cole Gravel Precontact Site - Locus 1, Town of Rathbone, Steuben County, NY   | 100                                      | \$0                                 | (\$879)                          | (\$879)                      |
| Miroff, Dr. Laurie E       | Environmental Design & Research     | Archaeological Fieldwork (4 weeks of fieldwork, administrative costs) Projects in Tompkins County, Allegany County, and Orleans County, NY  | 100                                      | \$5,979                             | \$897                            | \$6,876                      |
| Miroff, Dr. Laurie E       | F.S. Lopke Contracting Incorporated | Phase 3 Data Recovery of Clusters A, B, D, & E of Ayers 1 Site, Town of Nichols, Tioga County NY  | 100                                      | \$4,536                             | \$680                            | \$5,217                      |
| Miroff, Dr. Laurie E       | F.S. Lopke Contracting Incorporated | Phase 3 Data Recovery of Clusters 1-7 of the Ayers 2 Site, Town of Nichols, Tioga County, NY  | 100                                      | \$128,795                           | \$19,319                         | \$148,114                    |
| Miroff, Dr. Laurie E       | First Universalist Church           | Geophysical Survey for Time Capsule Project, Brooklyn, Susquehanna County, PA   | 100                                      | \$953                               | \$143                            | \$1,096                      |
| Miroff, Dr. Laurie E       | Interboro Partners                  | Phase 1A Archaeological Assessment, Medina High Wall and Art Route, Village of Medina, Orleans County, NY   | 100                                      | \$3,567                             | \$535                            | \$4,102                      |
| Miroff, Dr. Laurie E       | LaBella Associates                  | LaBella Project 2102536: Phase 1 Initial Historic Resource and Phase 1A Archaeological Assessments within the Town of Dekalb, St. Lawrence County, New York and the Town of Lyme, Jefferson County, New York. | 100                                      | (\$513)                             | (\$77)                           | (\$589)                      |



| <u>Investigator</u>  | <u>Sponsor Name</u>         | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------|-----------------------------|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Miroff, Dr. Laurie E | LaBella Associates          | Phase 1A Archaeological Aseessment, Newark Valley Solar Project, Town of Newark Valley, Tioga County, NY | 100                               | \$2,111                      | \$317                     | \$2,428               |
| Miroff, Dr. Laurie E | LaBella Associates          | St. Regis River Solar  | 100                               | \$4,348                      | \$652                     | \$5,000               |
| Miroff, Dr. Laurie E | LaBella Associates          | Scotch Ridge Solar Project, Phase 1A Archaeological Assessment- Revision                                 | 100                               | \$934                        | \$140                     | \$1,074               |
| Miroff, Dr. Laurie E | Cole Trucking and Gravel    | Cole Gravel Mine Project, Phase 1 Archaeological Survey, Town of Rathbone, Steuben County, NY            | 100                               | \$0                          | (\$1,931)                 | (\$1,931)             |
| O'Donovan, Dr. Maria | Multiple Sponsors           | Journal for the Council of Northeast Historical Archaeology  | 100                               | \$192                        | \$29                      | \$221                 |
| Versaggi, Dr. Nina M | National Science Foundation | Engaging Rural Youth in Multidisciplinary Inquiry through Archaeology                                    | 25                                | \$12,343                     | \$3,128                   | \$15,471              |

**Department Total: \$709,480**

**020 Research Sponsored Prog**

|                      |                   |                                  |     |         |       |         |
|----------------------|-------------------|----------------------------------|-----|---------|-------|---------|
| Dublin, Dr. Thomas L | Multiple Sponsors | Unrestricted research activities | 100 | \$2,588 | \$388 | \$2,976 |
|----------------------|-------------------|----------------------------------|-----|---------|-------|---------|

**Department Total: \$2,976**

**020 Research VP**

|                          |                             |  |     |         |         |          |
|--------------------------|-----------------------------|--|-----|---------|---------|----------|
| Czarnecki, Dr. Steven V. | National Science Foundation | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors | 15  | \$8,466 | \$4,581 | \$13,047 |
| Czarnecki, Dr. Steven V. | National Science Foundation | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors | 15  | \$2,578 | \$287   | \$2,865  |
| Jacobson, Dr. Michael E  | Multiple Sponsors           | Broader Impact Programming   | 100 | \$798   | \$120   | \$918    |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Jung, Mr. Dae-Young        | Purdue University                         | USPAE Proposal to CIR CS-20-1302 for Lead Free Defense Electronics Subagreement under the Advanced Technology international Prime Agreement No. 2021-432 | 50                                       | \$13,521                            | \$7,707                          | \$21,228                     |
| Park, Dr. Seungbae         | Multiple Sponsors                         | Symposium and Other IEEC Activities  | 100                                      | \$28,472                            | \$7,118                          | \$35,590                     |
| Rangarajan, Dr. Srikanth   | Applied Materials                         | Design, Develop and Demonstrate a True 3D Packaging  | 25                                       | \$7,652                             | \$4,224                          | \$11,876                     |
| Rangarajan, Dr. Srikanth   | SUNY Applied Materials Research Institute | Design, Develop and Demonstrate a True 3D Packaging  | 25                                       | \$31                                | \$18                             | \$49                         |
| Turner, Mr. James N        | National Science Foundation               | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors   | 15                                       | \$2,578                             | \$287                            | \$2,865                      |
| Turner, Mr. James N        | National Science Foundation               | PFI-TT: Next Generation High Energy Storage, Light Weight Capacitors   | 15                                       | \$8,466                             | \$4,581                          | \$13,047                     |
| Whittingham, Dr. M Stanley | Empire State Development Corp             | CFA 96852: New Energy New York   | 50                                       | \$5,027                             | \$1,910                          | \$6,937                      |
| Whittingham, Dr. M Stanley | Economic Development Administration       | New Energy New York: Battery-NY Center Operations  | 50                                       | \$21,171                            | \$8,045                          | \$29,215                     |
| Whittingham, Dr. M Stanley | Empire State Development Corp             | CFA 96852: New Energy New York   | 50                                       | \$31,495                            | \$11,968                         | \$43,462                     |
| Whittingham, Dr. M Stanley | Empire State Development Corp             | CFA 96852: New Energy New York   | 50                                       | \$26,050                            | \$5,208                          | \$31,259                     |
| Whittingham, Dr. M Stanley | Empire State Development Corp             | CFA 96852: New Energy New York   | 50                                       | \$674,638                           | \$11,262                         | \$685,901                    |
| Whittingham, Dr. M Stanley | Economic Development Administration       | New Energy New York: Supply Chain Development and Qualification Programs   | 50                                       | \$45,510                            | \$4,750                          | \$50,260                     |

| <u>Investigator</u>        | <u>Sponsor Name</u>                 | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|----------------------------|-------------------------------------|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Whittingham, Dr. M Stanley | Economic Development Administration | New Energy New York: Innovation and Entrepreneurship            | 50                                | \$24,020                     | \$9,128                   | \$33,148              |
| Whittingham, Dr. M Stanley | Economic Development Administration | New Energy New York: Climate Justice and Social Equity Programs | 50                                | \$6,797                      | \$2,583                   | \$9,380               |
| Whittingham, Dr. M Stanley | Economic Development Administration | New Energy New York: Workforce Development Programs             | 50                                | \$53,486                     | \$15,437                  | \$68,923              |
| <b>Department Total:</b>   |                                     |   |                                   | <b>\$1,059,969</b>           |                           |                       |

**020 School Of Management**

|                          |                                       |  |     |                 |         |          |
|--------------------------|---------------------------------------|--|-----|-----------------|---------|----------|
| Dhillon, Dr. Upinder     | Multiple Sponsors                     | Transformational Leadership Program  | 100 | \$61,513        | \$9,227 | \$70,740 |
| Dionne, Ms. Shelley      | Waseda University                     | Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2022    | 50  | \$1,288         | \$734   | \$2,022  |
| Dionne, Ms. Shelley      | Waseda University                     | Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2023    | 50  | \$3,724         | \$2,123 | \$5,847  |
| Tsai, Dr. Chou-Yu        | Kanagawa University of Human Services | Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education FY 2022 | 100 | \$4,011         | \$2,286 | \$6,297  |
| Tsai, Dr. Chou-Yu        | Waseda University                     | Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2023    | 50  | \$3,724         | \$2,123 | \$5,847  |
| Tsai, Dr. Chou-Yu        | Waseda University                     | Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education 2022    | 50  | \$1,288         | \$734   | \$2,022  |
| Yammarino, Dr. Francis J | Multiple Sponsors                     | Miscellaneous Income - Fran Yammarino  | 100 | \$3,817         | \$573   | \$4,390  |
| <b>Department Total:</b> |                                       |  |     | <b>\$97,164</b> |         |          |

**020 Small Business Dev Center**

| <u><i>Investigator</i></u>      | <u><i>Sponsor Name</i></u>    | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|---------------------------------|-------------------------------|---|--|-------------------------------------|----------------------------------|------------------------------|
| Layman, Ms. Rochelle            | Small Business Administration | NY SBDC Funding FY23  | 100                                      | \$121,674                           | \$14,601                         | \$136,275                    |
| Layman, Ms. Rochelle            | Alternatives Venture Fund     | SEED Program for Small Business Development in Tompkins County                          | 100                                      | \$7,205                             | \$865                            | \$8,070                      |
| Layman, Ms. Rochelle            | Empire State Development Corp | COVID-19 Pandemic Small Business Recovery Grant Program ? Technical Assistance Grants   | 100                                      | \$1,520                             | \$152                            | \$1,672                      |
| Layman, Ms. Rochelle            | Multiple Sponsors             | Miscellaneous Income- Small Business Development Center Activities                      | 100                                      | \$734                               | \$110                            | \$845                        |
| Layman, Ms. Rochelle            | Multiple Sponsors             | Program Income Account for SBDC Training Activities Associated with federal SBA funding | 100                                      | (\$1,188)                           | \$0                              | (\$1,188)                    |
| Layman, Ms. Rochelle            | Multiple Sponsors             | Restricted Program Income - SBDC  | 100                                      | \$0                                 | \$360                            | \$360                        |
| Layman, Ms. Rochelle            | Small Business Administration | Small Business Development Centers Cares Act  | 100                                      | \$107,858                           | \$12,943                         | \$120,801                    |
| Layman, Ms. Rochelle            | Small Business Administration | SBDC 21-22  | 100                                      | \$53,752                            | \$6,450                          | \$60,203                     |
| <b><i>Department Total:</i></b> |                               |   |  | <b><i>\$327,037</i></b>             |                                  |                              |

***020 Student Affairs V P***

|                      |                            |  |     |           |          |           |
|----------------------|----------------------------|--|-----|-----------|----------|-----------|
| Edouard, Mr. Randall | US Department of Education | 2018-2022 Binghamton University Upward Bound Program       | 100 | \$278,128 | \$21,919 | \$300,048 |
| Givre, Dr. Sophia J. | US Department of Education | Binghamton University Upward Bound Rural Program 2017-2022 | 100 | \$20,060  | \$0      | \$20,060  |
| Givre, Dr. Sophia J. | US Department of Education | 2018-2022 Binghamton University Upward Bound Program       | 100 | \$24,177  | \$0      | \$24,177  |

| <u><i>Investigator</i></u>      | <u><i>Sponsor Name</i></u> | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|---------------------------------|----------------------------|--|--|-------------------------------------|----------------------------------|------------------------------|
| Givre, Dr. Sophia J.            | US Department of Education | Binghamton University Upward Bound Rural Program                         | 100                                      | \$101,917                           | \$8,153                          | \$110,070                    |
| Givre, Dr. Sophia J.            | US Department of Education | Binghamton University Upward Bound Rural Program 2017-2022               | 100                                      | \$125,251                           | \$9,701                          | \$134,952                    |
| Rebello, Mr. Stephen Michael    | US Department of Education | Student Support Services STEM Program at Binghamton University 2020-2025 | 100                                      | \$204,652                           | \$16,372                         | \$221,024                    |
| Rebello, Mr. Stephen Michael    | US Department of Education | Student Support Services STEM Program at Binghamton University 2020-2025 | 100                                      | \$2,634                             | \$0                              | \$2,634                      |
| Rebello, Mr. Stephen Michael    | US Department of Education | Student Support Services Program at Binghamton University 2021-2026      | 100                                      | \$330,182                           | \$26,415                         | \$356,596                    |
| Rebello, Mr. Stephen Michael    | US Department of Education | Student Support Services Program at Binghamton University 2021-2026      | 100                                      | \$7,185                             | \$0                              | \$7,185                      |
| <b><i>Department Total:</i></b> |                            |  |  | <b><i>\$1,176,745</i></b>           |                                  |                              |

***020 Systems Science and Indust Eng (SSIE)***

|                      |  |   |       |          |          |           |
|----------------------|--|---|-------|----------|----------|-----------|
| Borgesen, Mr. Peter  | Allegro Microsystems                                 | Allegro Microsystems Materials Testing Agreement (Project 1)  | 100   | \$825    | \$206    | \$1,031   |
| Borgesen, Mr. Peter  | Purdue University                                    | Borgesen 2020 SRC CHIRP: Reliable Low Temperature Solder Approach   | 100   | \$28,398 | \$16,187 | \$44,585  |
| Cheng, Dr. Changqing | Foxconn Industrial Internet dba FII USA Incorporated | Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment  | 16.67 | \$66,970 | \$13,217 | \$80,188  |
| Cheng, Dr. Changqing | National Science Foundation                          | EAGER International Type 11: Sustainable International Collaboration in Spaitotemporal Modeling of Human Mobility and Contagion Dynamics for COVID-19 | 100   | \$70,333 | \$37,894 | \$108,227 |
| Chung, Dr. Sunghoon  | National Science Foundation                          | Collaborative Research: Arc Routing Problems in Combined Drone/ Truck Fleets  | 100   | \$22,898 | \$12,503 | \$35,401  |

| <u>Investigator</u>       | <u>Sponsor Name</u>                                  | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Deng, Dr. Jia             | Foxconn Industrial Internet dba FII USA Incorporated | Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment                                | 16.66                             | \$66,930                     | \$13,209                  | \$80,139              |
| Deng, Dr. Jia             | National Science Foundation                          | Multiple-Energy- Assisted Ultrasharp Probe-Based Nanomanufacturing for High-Resolution and High-Efficiency Nanopatterning               | 50                                | \$66,121                     | \$23,282                  | \$89,403              |
| Greene, Dr. Christopher M | Smart Modular Technologies Inc                       | Quality and Reliability Engineering for Complex Surface Mount Devices   | 50                                | \$1,735                      | \$451                     | \$2,186               |
| Greene, Dr. Christopher M | Smart Modular Technologies Inc                       | Continual Process Improvement for the Assembly of Advanced Complex Surface Mount Devices Assemblies Utilizing Advanced Process Research | 50                                | \$444                        | \$115                     | \$559                 |
| Greene, Dr. Christopher M | Smart Modular Technologies Inc                       | Advancement in the Assembly Process of Complex Surface Mount Devices  | 50                                | \$406                        | \$106                     | \$511                 |
| Greene, Dr. Christopher M | Smart Modular Technologies Inc                       | Complex Surface Mount Device Continual Process Improvement of Assemblies Utilizing Advanced Procees Research                            | 50                                | \$41                         | \$11                      | \$52                  |
| Jin, Dr. Yu               | Innovation Associates Doing Business As iA           | Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling  | 33                                | \$79,136                     | \$13,679                  | \$92,815              |
| Jin, Dr. Yu               | Innovation Associates Doing Business As iA           | Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training, and Marketing Purposes             | 33                                | \$19,199                     | \$4,992                   | \$24,191              |
| Jin, Dr. Yu               | Zebra Technologies Enterprise Corporation            | Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing  | 20                                | \$8,661                      | \$1,908                   | \$10,568              |
| Jin, Dr. Yu               | Innovation Associates Doing Business As iA           | CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction                            | 25                                | \$11,572                     | \$768                     | \$12,340              |
| Khasawneh, Dr. Mohammad   | SUNY Downstate Health Sciences University            | Support for Supply Chain Operations Performance Improvement and Cost Reduction  | 50                                | \$78,250                     | \$13,444                  | \$91,694              |
| Khasawneh, Dr. Mohammad   | Zebra Technologies Enterprise Corporation            | Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing  | 20                                | \$8,661                      | \$1,908                   | \$10,568              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                    | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Khasawneh, Dr. Mohammad    | PCE Paragon Solutions USA Incorporated        | Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes                                  | 33                                       | \$13,796                            | \$2,475                          | \$16,270                     |
| Khasawneh, Dr. Mohammad    | RTSync Corporation                            | Model Level Integrated Simulation Architecture for Collaborative Development Prime Contract Number HQ0860-22-C-7144  | 33                                       | \$13,897                            | \$2,734                          | \$16,631                     |
| Khasawneh, Dr. Mohammad    | Smart Modular Technologies Inc                | Quality and Reliability Process Analyses for Complex Electronics Assemblies  | 50                                       | \$12,586                            | \$3,272                          | \$15,859                     |
| Khasawneh, Dr. Mohammad    | TidalHealth                                   | Continuous Performance Improvement and System Modeling Support for TidalHealth, Inc                                  | 50                                       | \$15,957                            | \$3,369                          | \$19,326                     |
| Khasawneh, Dr. Mohammad    | United Health Services Hospitals Incorporated | Business Intelligence & Performance Improvement R&D  | 50                                       | \$18,516                            | \$4,814                          | \$23,330                     |
| Khasawneh, Dr. Mohammad    | United Health Services Hospitals Incorporated | Business Intelligence and Performance Improvement R&D (2022-2023)  | 50                                       | \$10,055                            | \$1,459                          | \$11,513                     |
| Khasawneh, Dr. Mohammad    | Waseda University                             | How Does Diversity of Individuals Affects the Structure of Society?: A Constructive Approach Using Adaptive Networks | 100                                      | \$7,801                             | \$4,447                          | \$12,248                     |
| Khasawneh, Dr. Mohammad    | Waymo Limited Liability Corporation           | R&D Support for PCB/A Technology Projects at Waymo LLC.  | 33                                       | \$13,656                            | \$3,385                          | \$17,041                     |
| Khasawneh, Dr. Mohammad    | Montefiore Hospital and Medical Center        | Process Analysis and Performance Excellence for Integrated Delivery Care Systems                                     | 33                                       | \$4,383                             | \$1,140                          | \$5,522                      |
| Khasawneh, Dr. Mohammad    | Waseda University                             | Spontaneous ideological escalation without leaders as distributed socio-dynamical process                            | 100                                      | \$6,157                             | \$3,509                          | \$9,666                      |
| Khasawneh, Dr. Mohammad    | Nuvance Health                                | Health System Transformation and Data Management Support for Nuvance Health  | 50                                       | \$6,689                             | \$1,614                          | \$8,303                      |
| Khasawneh, Dr. Mohammad    | Montefiore Hospital and Medical Center        | Business Process Engineering Support for Network Management Systems CMO (AMD 23)                                     | 33                                       | \$8,756                             | \$2,277                          | \$11,033                     |

| <u>Investigator</u>     | <u>Sponsor Name</u>                                  | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|-------------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Khasawneh, Dr. Mohammad | Memorial Sloan Kettering Cancer Center               | Improving Quality, Safety and Patient Flow and Outpatient Medication Management (AMD 6)   | 50                                | \$538                        | \$140                     | \$678                 |
| Khasawneh, Dr. Mohammad | Memorial Sloan Kettering Cancer Center               | Improving Quality, Safety and Patient Flow and Outpatient Medication Management   | 50                                | \$14,747                     | \$3,834                   | \$18,581              |
| Khasawneh, Dr. Mohammad | Foxconn Industrial Internet dba FII USA Incorporated | Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment  | 16.67                             | \$66,970                     | \$13,217                  | \$80,188              |
| Khasawneh, Dr. Mohammad | Foxconn Assembly Limited Liability Company           | Process Engineering and NPI Support in Electronics Assembly   | 33                                | \$17,051                     | \$3,705                   | \$20,755              |
| Khasawneh, Dr. Mohammad | Foxconn Assembly Limited Liability Company           | Process Development and Improvement for New Product Introductions in Electronics Assembly   | 33                                | \$13,930                     | \$3,419                   | \$17,349              |
| Khasawneh, Dr. Mohammad | EwingCole  | Healthcare Practice Research and Development through Operational Planning and Simulation Modeling   | 50                                | \$14,418                     | \$3,498                   | \$17,917              |
| Khasawneh, Dr. Mohammad | Cooper University Health Care                        | Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (2021-2023)                      | 34                                | \$22,582                     | \$5,006                   | \$27,588              |
| Khasawneh, Dr. Mohammad | Christiana Care Health Services Incorporated         | Organizational Excellence Support at Christiana Care (AMD 6)  | 34                                | \$11,239                     | \$2,752                   | \$13,991              |
| Khasawneh, Dr. Mohammad | Best Buy Purchasing LLC                              | Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes   | 33                                | \$4,453                      | \$643                     | \$5,096               |
| Khasawneh, Dr. Mohammad | Mount Sinai Medical Center                           | WISE Healthcare Systems Engineering and Analytics Support Continuous Performance Improvement Research and Implementation 12104371 Amend 5 & 6 and 7 & 8 | 50                                | \$281,866                    | \$50,914                  | \$332,779             |
| Lam, Dr. Sarah          | Christiana Care Health Services Incorporated         | Organizational Excellence Support at Christiana Care (AMD 6)  | 33                                | \$10,909                     | \$2,671                   | \$13,580              |
| Lam, Dr. Sarah          | Cooper University Health Care                        | Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (2021-2023)                      | 33                                | \$21,918                     | \$4,859                   | \$26,776              |



| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>          | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|-------------------------------------|--|--|-------------------------------------|----------------------------------|------------------------------|
| Lu, Dr. Susan Shuxia       | National Science Foundation         | I-Corps: Low-Cost and Highly Efficient Hydrogen Production from Water Splitting                | 50                                       | \$1,921                             | \$213                            | \$2,134                      |
| Nagarur, Dr. Nagendra      | Sanmina Corporation                 | Research in Materials, Assembly, and Automation in Printed Circuit Board Assembly              | 50                                       | (\$5,543)                           | \$807                            | (\$4,736)                    |
| Nagarur, Dr. Nagendra      | Sanmina Corporation                 | Research in System Integration at a New Product Introduction Facility                          | 33                                       | \$14,439                            | \$1,852                          | \$16,290                     |
| Nagarur, Dr. Nagendra      | Sanmina Corporation                 | Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company | 33                                       | \$17,942                            | \$3,631                          | \$21,573                     |
| Nagarur, Dr. Nagendra      | Sanmina Corporation                 | Research in Quality Management in Electronics Assembly and Manufacturing                       | 33                                       | \$13,783                            | \$3,065                          | \$16,848                     |
| Nagarur, Dr. Nagendra      | Sanmina Corporation                 | Research in Discrete Electronics Manufacturing and Automation                                  | 33                                       | \$16,103                            | \$3,853                          | \$19,956                     |
| Nagarur, Dr. Nagendra      | Sanmina Corporation                 | Research in Materials, Assembly, and Automation in a Surface Mount Technology Company          | 33                                       | \$16,678                            | \$3,040                          | \$19,718                     |
| Ning, Dr. Fuda             | Sanmina Corporation                 | Research in Quality Management in Electronics Manufacturing and Packaging                      | 50                                       | \$103                               | \$27                             | \$129                        |
| Ning, Dr. Fuda             | Sanmina Corporation                 | Research in Quality Management in Electronics Assembly and Manufacturing                       | 33                                       | \$13,783                            | \$3,065                          | \$16,848                     |
| Ning, Dr. Fuda             | Waymo Limited Liability Corporation | R&D Support for PCB/A Technology Projects at Waymo LLC.  | 33                                       | \$13,656                            | \$3,385                          | \$17,041                     |
| Ning, Dr. Fuda             | Sanmina Corporation                 | Research in Electronics Manufacturing and Automation Engineering                               | 50                                       | \$4,700                             | \$1,222                          | \$5,922                      |
| Ning, Dr. Fuda             | Sanmina Corporation                 | Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company | 33                                       | \$17,942                            | \$3,631                          | \$21,573                     |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                          | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|---|--|-------------------------------------|----------------------------------|------------------------------|
| Ning, Dr. Fuda             | Sanmina Corporation                                 | Research in System Integration at a New Product Introduction Facility   | 33                                       | \$14,439                            | \$1,852                          | \$16,290                     |
| Ning, Dr. Fuda             | Additive Technologies Limited Liability Corporation | Additive Manufacturing of Titanium Thin-wall Structures   | 100                                      | \$3,908                             | \$977                            | \$4,885                      |
| Ning, Dr. Fuda             | Sanmina Corporation                                 | Research in Discrete Electronics Manufacturing and Automation   | 33                                       | \$16,103                            | \$3,853                          | \$19,956                     |
| Ning, Dr. Fuda             | Sanmina Corporation                                 | Research in Materials, Assembly, and Automation in a Surface Mount Technology Company   | 33                                       | \$16,678                            | \$3,040                          | \$19,718                     |
| Poliks, Dr. Mark D         | NextFlex  | PC7.7.1: Manufacturing Approaches for Low-Cost Sustainable Single Use Medical Devices   | 100                                      | \$18,946                            | \$10,799                         | \$29,745                     |
| Poliks, Dr. Mark D         | Flex Tech Alliance                                  | Soft ElectroNic Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm)  | 50                                       | \$270,357                           | \$3,534                          | \$273,891                    |
| Poliks, Dr. Mark D         | FuzeHub   | Scalable Manufacturing of Microelectronic Biosensors Using Conductive Links Binghamton University CAMM Aincobio                                   | 100                                      | \$8,666                             | \$0                              | \$8,666                      |
| Poliks, Dr. Mark D         | Honeywell Federal Manufacturing & Technologies LLC  | AM Electronics Testing Development 705049, Rev.1  | 100                                      | \$5,652                             | \$3,222                          | \$8,874                      |
| Poliks, Dr. Mark D         | Lux Semiconductors Incorporated                     | SBIR Phase 2: Circuit Fabrication and Development on Novel Thin-Film Crystalline Silicon  | 100                                      | \$28,076                            | \$15,186                         | \$43,262                     |
| Poliks, Dr. Mark D         | Lux Semiconductors Incorporated                     | PC6.1 Evaluating System-on-foil (TM) Interposer for High-Performance FHE  | 100                                      | \$50,207                            | \$17,883                         | \$68,090                     |
| Poliks, Dr. Mark D         | Nano-Bio Materials Consortium                       | Paper 52: Wireless Interstitial Fluid Monitoring Devices  | 100                                      | \$578,842                           | \$76,713                         | \$655,554                    |
| Poliks, Dr. Mark D         | National Science Foundation                         | MRI: Acquisition of a Hard X-Ray PhotoElectron Spectroscopy (HAXPES) for the Institute for Materials Research (IMR) at Binghamton University (BU) | 10                                       | \$7,040                             | \$0                              | \$7,040                      |

| <u>Investigator</u> | <u>Sponsor Name</u>                    | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Poliks, Dr. Mark D  | NextFlex                               | Task 6.2: NextFlex Reliability Validation and Sustainment of Direct-Write Printed RF Devices                                 | 100                               | \$186,095                    | \$26,334                  | \$212,429             |
| Poliks, Dr. Mark D  | NextFlex                               | Task 6.7: NextFlex Mid-Band Phased Array Demonstrator Using Printed and Flexible Hybrid Electronics                          | 100                               | \$220,363                    | \$18,370                  | \$238,733             |
| Poliks, Dr. Mark D  | NextFlex                               | Task 6.10: NextFlex Small-Scale mm-Wave SATCOM System & 5G Systems for UAS Attributable Platform                             | 100                               | \$129,298                    | \$38,168                  | \$167,465             |
| Poliks, Dr. Mark D  | NextFlex                               | PC7.1 Hybrid RF Multi Chip Module (MCM) with Printed Substrates and Interconnects  | 100                               | \$93,214                     | \$14,430                  | \$107,644             |
| Poliks, Dr. Mark D  | NYS Department of Economic Development | Center For Flexible Hybrid Medical Device Manufacturing  | 100                               | \$22,556                     | \$0                       | \$22,556              |
| Poliks, Dr. Mark D  | NYS Department of Economic Development | Center For Flexible Hybrid Medical Device Manufacturing  | 100                               | \$555,647                    | \$48,706                  | \$604,353             |
| Poliks, Dr. Mark D  | NYS Department of Economic Development | Center For Flexible Hybrid Medical Device Manufacturing  | 100                               | \$4,000                      | \$0                       | \$4,000               |
| Poliks, Dr. Mark D  | SEMI                                   | 3D Printed Electronics with Multi Jet Fusion for Flexible Hybrid Electronics   | 100                               | \$581,992                    | \$52,291                  | \$634,283             |
| Poliks, Dr. Mark D  | SunRay Scientific LLC                  | Robust Conformal Interconnections for Skin Patch Electronic Sensor Systems- Agreement No. FA864922P1051                      | 100                               | \$1,331                      | \$759                     | \$2,090               |
| Poliks, Dr. Mark D  | TTM Technologies                       | FlexMed Research Support/Collaboration TTM BGM   | 100                               | \$4,758                      | \$714                     | \$5,472               |
| Poliks, Dr. Mark D  | Georgia Institute of Technology        | Task 6.6: Models and Tools to Predict Reliability and Life of FHE Components and Systems Work Performed in the United States | 100                               | \$41,966                     | \$22,030                  | \$63,996              |
| Poliks, Dr. Mark D  | Flex Tech Alliance                     | Advanced Power Device Integration Using Direct Write Technology Paper 13   | 100                               | \$337,199                    | \$9,907                   | \$347,106             |

| <u>Investigator</u> | <u>Sponsor Name</u>                                | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|--|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Poliks, Dr. Mark D  | NextFlex   | Task 6.1: AM High Temperature RF Components for Hypersonics   | 100                               | \$85,615                     | \$12,375                  | \$97,990              |
| Poliks, Dr. Mark D  | Empire State Development Corp                      | AA878 Consolidated Award  | 100                               | \$20,493                     | \$11,681                  | \$32,174              |
| Poliks, Dr. Mark D  | Flex Tech Alliance                                 | Wireless Vital Sign Monitoring Devices for Ambulatory Care  | 100                               | \$149,214                    | \$1,255                   | \$150,470             |
| Poliks, Dr. Mark D  | Aptima Incorporated                                | PC7.8.2- Project SAFE-TE (Safety Assessments of FHE and Enhancements for Tough Environments) SLIN NO: 001 | 100                               | \$21,817                     | \$8,741                   | \$30,558              |
| Poliks, Dr. Mark D  | CathBuddy  | Development of a Resuable, Sensor-enabled Smart Catheter  | 100                               | \$1,328                      | \$757                     | \$2,085               |
| Poliks, Dr. Mark D  | Corning Incorporated                               | FlexMed: Metalization and R2R Processing on the Thin Flexible Inorganic Substrates                        | 100                               | \$26,851                     | \$15,305                  | \$42,156              |
| Poliks, Dr. Mark D  | Corning Incorporated                               | Roll-to-Roll (R2R) Processing of Thin Flexible Inorganic Substrates                                       | 100                               | \$48,430                     | \$23,636                  | \$72,066              |
| Poliks, Dr. Mark D  | Honeywell Federal Manufacturing & Technologies LLC | Advanced Manufacturing Testing  | 100                               | \$5,945                      | \$3,389                   | \$9,334               |
| Poliks, Dr. Mark D  | Empire State Development Corp                      | AA878 Consolidated Award  | 100                               | \$308,341                    | \$43,998                  | \$352,339             |
| Poliks, Dr. Mark D  | Empire State Development Corp                      | AA878 Consolidated Award  | 100                               | \$16,376                     | \$7,625                   | \$24,001              |
| Poliks, Dr. Mark D  | Empire State Development Corp                      | AA878 Consolidated Award  | 100                               | \$60,377                     | \$16,135                  | \$76,512              |
| Poliks, Dr. Mark D  | Empire State Development Corp                      | AA878 Consolidated Award  | 100                               | \$25,631                     | \$14,335                  | \$39,966              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>              | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Poliks, Dr. Mark D         | 2M Technology Limited Liability Company | FlexMed: 2M Technology LLC Testing Agreement   | 100                                      | \$13,816                            | \$3,454                          | \$17,270                     |
| Poliks, Dr. Mark D         | Empire State Development Corp           | Soft ElectroNic Skin-Innervated Robotic Work for Rapid Maintenance of Strategic Assets (Sensiworm) | 50                                       | \$119,706                           | \$10,031                         | \$129,737                    |
| Poliks, Dr. Mark D         | Empire State Development Corp           | Wireless Vital Sign Monitoring Devices for Ambulatory Care   | 100                                      | \$173,849                           | \$26,211                         | \$200,060                    |
| Poliks, Dr. Mark D         | Empire State Development Corp           | ESD Match - Advanced Power Integration Using Direct Write Technology                               | 100                                      | \$291,826                           | \$12,874                         | \$304,699                    |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$56,795                            | \$20,116                         | \$76,911                     |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$15,365                            | \$5,064                          | \$20,429                     |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$6,154                             | \$3,508                          | \$9,661                      |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$1,429                             | \$815                            | \$2,244                      |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$21,295                            | \$10,247                         | \$31,542                     |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$135,750                           | \$14,250                         | \$150,000                    |
| Poliks, Dr. Mark D         | Empire State Development Corp           | AA878 Consolidated Award   | 100                                      | \$119,267                           | \$48,169                         | \$167,436                    |
| Rocha, Dr. Luis            | Trustees of Indiana University          | NRT: Interdisciplinary Training in Complex Networks and Systems Subaward BL 9294                   | 100                                      | \$774                               | \$387                            | \$1,160                      |

| <u>Investigator</u> | <u>Sponsor Name</u>   | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Rocha, Dr. Luis     | National Library of Medicine  | myAURA: Personalized Web Service for Epilepsy Management  | 100                               | \$103,122                    | \$51,893                  | \$155,014             |
| Santos, Dr. Daryl L | Smart Modular Technologies Inc  | Failure Analysis of DRAM and Flash Memory Modules   | 50                                | \$19,993                     | \$4,168                   | \$24,161              |
| Santos, Dr. Daryl L | Foxconn Assembly Limited Liability Company                            | Process Development and Improvement for New Product Introductions in Electronics Assembly   | 33                                | \$13,930                     | \$3,419                   | \$17,349              |
| Santos, Dr. Daryl L | Foxconn Assembly Limited Liability Company                            | Process Engineering and NPI Support in Electronics Assembly   | 33                                | \$17,051                     | \$3,705                   | \$20,755              |
| Santos, Dr. Daryl L | Foxconn Industrial Internet dba FII USA Incorporated                  | Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment  | 16.66                             | \$66,930                     | \$13,209                  | \$80,139              |
| Santos, Dr. Daryl L | Foxconn Industrial Internet dba FII USA Incorporated                  | Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment  | 16.67                             | \$66,970                     | \$13,217                  | \$80,188              |
| Santos, Dr. Daryl L | PCE Paragon Solutions USA Incorporated                                | Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes   | 33                                | \$13,796                     | \$2,475                   | \$16,270              |
| Si, Dr. Bing        | University of Rhode Island  | Multi-level Influences of Violence Screening in College Health Centers  | 100                               | \$23,909                     | \$13,628                  | \$37,537              |
| Si, Dr. Bing        | State University of New York  | Ray-based Functional Regression with Federated Learning   | 80                                | \$27,035                     | \$0                       | \$27,035              |
| Si, Dr. Bing        | Eunice Kennedy Shriver National Institute of Child Health & Human Dev | Sleep and Cardiometabolic Health in United States Hispanic/Latino Late Adolescents/ Young Adults  | 100                               | \$13,872                     | \$7,907                   | \$21,779              |
| Si, Dr. Bing        | National Heart Lung and Blood Institute                               | Towards Precise Phenotype Discovery of Obstructive Sleep Apnea with a Data-Inclusive Multi-Study Analysis Using the National Sleep Research Resource (NSRR) | 100                               | \$4,340                      | \$2,474                   | \$6,814               |
| Si, Dr. Bing        | IBM Corporation   | Ray -F2R-FL: Ray Based Functional Regression with Federated Learning  | 80                                | \$28,396                     | \$0                       | \$28,396              |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|---|--|-------------------------------------|----------------------------------|------------------------------|
| Srihari, Dr. Krishnaswami  | Smart Modular Technologies Inc            | Continual Process Improvement for the Assembly of Advanced Complex Surface Mount Devices Assemblies Utilizing Advanced Process Research | 50                                       | \$444                               | \$115                            | \$559                        |
| Srihari, Dr. Krishnaswami  | Zebra Technologies Enterprise Corporation | Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing  | 20                                       | \$8,661                             | \$1,908                          | \$10,568                     |
| Srihari, Dr. Krishnaswami  | Raymond Leasing Corporation               | Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting  | 34                                       | \$8,077                             | \$2,100                          | \$10,177                     |
| Srihari, Dr. Krishnaswami  | Raymond Corporation                       | Inventory Optimization and Process Automation for Raymond Logistics   | 34                                       | \$6,954                             | \$1,223                          | \$8,177                      |
| Srihari, Dr. Krishnaswami  | RTSync Corporation                        | Model Level Integrated Simulation Architecture for Collaborative Development Prime Contract Number HQ0860-22-C-7144                     | 33                                       | \$13,897                            | \$2,734                          | \$16,631                     |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Research in Materials, Assembly, and Automation in Printed Circuit Board Assembly   | 50                                       | (\$5,543)                           | \$807                            | (\$4,736)                    |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Research in System Integration at a New Product Introduction Facility   | 34                                       | \$14,876                            | \$1,908                          | \$16,784                     |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Applied Research in Materials, Processes, and Automation in a Surface Mount Technology Company  | 34                                       | \$18,485                            | \$3,741                          | \$22,226                     |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Research in Quality Management in Electronics Assembly and Manufacturing  | 34                                       | \$14,201                            | \$3,158                          | \$17,358                     |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Research in Discrete Electronics Manufacturing and Automation   | 34                                       | \$16,591                            | \$3,970                          | \$20,561                     |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Research in Materials, Assembly, and Automation in a Surface Mount Technology Company   | 34                                       | \$17,183                            | \$3,132                          | \$20,315                     |
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                       | Research in Quality Management in Electronics Manufacturing and Packaging   | 50                                       | \$103                               | \$27                             | \$129                        |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                    | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|---|--|-------------------------------------|----------------------------------|------------------------------|
| Srihari, Dr. Krishnaswami  | Sanmina Corporation                           | Process Engineering and Development at an Electronics Manufacturing and Packaging Company                   | 100                                      | \$19,209                            | \$4,994                          | \$24,204                     |
| Srihari, Dr. Krishnaswami  | Smart Modular Technologies Inc                | Advancement in the Assembly Process of Complex Surface Mount Devices  | 50                                       | \$406                               | \$106                            | \$511                        |
| Srihari, Dr. Krishnaswami  | Smart Modular Technologies Inc                | Quality and Reliability Process Analyses for Complex Electronics Assemblies                                 | 50                                       | \$12,586                            | \$3,272                          | \$15,859                     |
| Srihari, Dr. Krishnaswami  | Smart Modular Technologies Inc                | Failure Analysis of DRAM and Flash Memory Modules   | 50                                       | \$19,993                            | \$4,168                          | \$24,161                     |
| Srihari, Dr. Krishnaswami  | Smart Modular Technologies Inc                | Complex Surface Mount Device Continual Process Improvement of Assemblies Utilizing Advanced Proces Research | 50                                       | \$41                                | \$11                             | \$52                         |
| Srihari, Dr. Krishnaswami  | Smart Modular Technologies Inc                | Quality and Reliability Engineering for Complex Surface Mount Devices                                       | 50                                       | \$1,735                             | \$451                            | \$2,186                      |
| Srihari, Dr. Krishnaswami  | SUNY Downstate Health Sciences University     | Support for Supply Chain Operations Performance Improvement and Cost Reduction                              | 50                                       | \$78,250                            | \$13,444                         | \$91,694                     |
| Srihari, Dr. Krishnaswami  | TidalHealth                                   | Continuous Performance Improvement and System Modeling Support for TidalHealth, Inc                         | 50                                       | \$15,957                            | \$3,369                          | \$19,326                     |
| Srihari, Dr. Krishnaswami  | United Health Services Hospitals Incorporated | Business Intelligence & Performance Improvement R&D   | 50                                       | \$18,516                            | \$4,814                          | \$23,330                     |
| Srihari, Dr. Krishnaswami  | United Health Services Hospitals Incorporated | Business Intelligence and Performance Improvement R&D (2022-2023)   | 50                                       | \$10,055                            | \$1,459                          | \$11,513                     |
| Srihari, Dr. Krishnaswami  | Waymo Limited Liability Corporation           | R&D Support for PCB/A Technology Projects at Waymo LLC.   | 34                                       | \$14,069                            | \$3,488                          | \$17,557                     |
| Srihari, Dr. Krishnaswami  | Raymond Corporation                           | Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics                     | 34                                       | \$5,332                             | \$1,386                          | \$6,718                      |



| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                                  | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Srihari, Dr. Krishnaswami  | Sanmina Corporation   | Research in Electronics Manufacturing and Automation Engineering   | 50                                       | \$4,700                             | \$1,222                          | \$5,922                      |
| Srihari, Dr. Krishnaswami  | Foxconn Assembly Limited Liability Company                  | Process Engineering and NPI Support in Electronics Assembly  | 34                                       | \$17,567                            | \$3,817                          | \$21,384                     |
| Srihari, Dr. Krishnaswami  | Raymond Leasing Corporation                                 | Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting AMD 1                               | 34                                       | \$7,330                             | \$1,290                          | \$8,620                      |
| Srihari, Dr. Krishnaswami  | PCE Paragon Solutions USA Incorporated                      | Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes  | 34                                       | \$14,214                            | \$2,550                          | \$16,763                     |
| Srihari, Dr. Krishnaswami  | Analog Devices, Incorporated                                | Packaging System Design R&D and Engineering Support  | 100                                      | \$547                               | \$142                            | \$690                        |
| Srihari, Dr. Krishnaswami  | Bennett Distribution Services Limited Liability Corporation | Warehouse Operations Management and Analytics Research And Development   | 34                                       | \$15,565                            | \$2,986                          | \$18,551                     |
| Srihari, Dr. Krishnaswami  | Bennett Distribution Services Limited Liability Corporation | Bennett Distribution Services Operations Management and Warehouse Process Improvement  | 34                                       | \$18,105                            | \$3,646                          | \$21,751                     |
| Srihari, Dr. Krishnaswami  | Best Buy Purchasing LLC                                     | Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes  | 34                                       | \$4,588                             | \$662                            | \$5,250                      |
| Srihari, Dr. Krishnaswami  | Christiana Care Health Services Incorporated                | Organizational Excellence Support at Christiana Care (AMD 6)   | 33                                       | \$10,909                            | \$2,671                          | \$13,580                     |
| Srihari, Dr. Krishnaswami  | Cooper University Health Care                               | Redesign of Care Processes and Workflows to Facilitate the Implementation of a Customer Relationship Management System (2021-2023) | 33                                       | \$21,918                            | \$4,859                          | \$26,776                     |
| Srihari, Dr. Krishnaswami  | EOS Energy Enterprises                                      | Application Engineering Support for Technical Solutions in Battery Energy  | 50                                       | \$7,168                             | \$1,084                          | \$8,252                      |
| Srihari, Dr. Krishnaswami  | Foxconn Assembly Limited Liability Company                  | Process Development and Improvement for New Product Introductions in Electronics Assembly  | 34                                       | \$14,352                            | \$3,523                          | \$17,875                     |

| <u>Investigator</u>       | <u>Sponsor Name</u>                                       | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Srihari, Dr. Krishnaswami | Foxconn Industrial Internet dba FII USA Incorporated      | Applied Research in Assembly, Reliability, and Costing for a Global Manufacturer of Electronic Equipment  | 16.67                             | \$66,970                     | \$13,217                  | \$80,188              |
| Srihari, Dr. Krishnaswami | GE Grid Solutions   | Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization | 50                                | \$23,170                     | \$4,933                   | \$28,102              |
| Srihari, Dr. Krishnaswami | Memorial Sloan Kettering Cancer Center                    | Improving Quality, Safety and Patient Flow and Outpatient Medication Management (AMD 6)   | 50                                | \$538                        | \$140                     | \$678                 |
| Srihari, Dr. Krishnaswami | Nuvance Health  | Health System Transformation and Data Management Support for Nuvance Health   | 50                                | \$6,689                      | \$1,614                   | \$8,303               |
| Srihari, Dr. Krishnaswami | Mount Sinai Medical Center                                | WISE Healthcare Systems Engineering and Analytics Support Continuous Performance Improvement Research and Implementation 12104371 Amend 5 & 6 and 7 & 8 | 50                                | \$281,866                    | \$50,914                  | \$332,779             |
| Srihari, Dr. Krishnaswami | Montefiore Hospital and Medical Center                    | Business Process Engineering Support for Network Management Systems CMO (AMD 23)  | 34                                | \$9,022                      | \$2,346                   | \$11,367              |
| Srihari, Dr. Krishnaswami | EwingCole   | Healthcare Practice Research and Development through Operational Planning and Simulation Modeling   | 50                                | \$14,418                     | \$3,498                   | \$17,917              |
| Srihari, Dr. Krishnaswami | Meta Platforms Technologies Limited Liability Corporation | Hardware Validation Testing Solution Development for Operations Integration at Facebook Infrastructure SOW INB2389116                                   | 100                               | \$8,588                      | \$2,233                   | \$10,820              |
| Srihari, Dr. Krishnaswami | Innovation Associates Doing Business As iA                | Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training, and Marketing Purposes                             | 34                                | \$19,781                     | \$5,143                   | \$24,924              |
| Srihari, Dr. Krishnaswami | Memorial Sloan Kettering Cancer Center                    | Improving Quality, Safety and Patient Flow and Outpatient Medication Management   | 50                                | \$14,747                     | \$3,834                   | \$18,581              |
| Srihari, Dr. Krishnaswami | Lattice Semiconductor                                     | Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains (AMD 1. 22-23)                          | 34                                | \$25,174                     | \$5,660                   | \$30,833              |

| <u>Investigator</u>       | <u>Sponsor Name</u>                        | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|--|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Srihari, Dr. Krishnaswami | Lattice Semiconductor                      | Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains      | 34                                | \$44                         | \$12                      | \$56                  |
| Srihari, Dr. Krishnaswami | Kennedy Valve Company                      | Support Kennedy Valve in Electronic Information System Implementation and Powder Coating Process Improvement         | 25                                | \$7,275                      | \$1,111                   | \$8,386               |
| Srihari, Dr. Krishnaswami | Innovation Associates Doing Business As iA | Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling                     | 34                                | \$81,534                     | \$14,094                  | \$95,628              |
| Srihari, Dr. Krishnaswami | Innovation Associates Doing Business As iA | CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction         | 25                                | \$11,572                     | \$768                     | \$12,340              |
| Srihari, Dr. Krishnaswami | Montefiore Hospital and Medical Center     | Process Analysis and Performance Excellence for Integrated Delivery Care Systems                                     | 34                                | \$4,516                      | \$1,174                   | \$5,690               |
| Wang, Dr. Yong            | Montefiore Hospital and Medical Center     | Process Analysis and Performance Excellence for Integrated Delivery Care Systems                                     | 33                                | \$4,383                      | \$1,140                   | \$5,522               |
| Wang, Dr. Yong            | Empire State Development Corp              | Smart Cities Innovation Partnership Project: Advanced Water Meters in New York State: Capital Grant: Project#134,146 | 34                                | \$57,549                     | \$2,445                   | \$59,994              |
| Wang, Dr. Yong            | Raymond Leasing Corporation                | Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting AMD 1                 | 33                                | \$7,114                      | \$1,252                   | \$8,366               |
| Wang, Dr. Yong            | Raymond Leasing Corporation                | Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting                       | 33                                | \$7,840                      | \$2,038                   | \$9,878               |
| Wang, Dr. Yong            | Raymond Corporation                        | Inventory Optimization and Process Automation for Raymond Logistics  | 33                                | \$6,749                      | \$1,187                   | \$7,936               |
| Wang, Dr. Yong            | Raymond Corporation                        | Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics                              | 33                                | \$5,175                      | \$1,345                   | \$6,520               |
| Wang, Dr. Yong            | Montefiore Hospital and Medical Center     | Business Process Engineering Support for Network Management Systems CMO (AMD 23)                                     | 33                                | \$8,756                      | \$2,277                   | \$11,033              |

| <u>Investigator</u> | <u>Sponsor Name</u>   | <u>Award Title</u>  | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|---|---|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Wang, Dr. Yong      | Innovation Associates Doing Business As iA                  | CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction  | 25                                | \$11,572                     | \$768                     | \$12,340              |
| Wang, Dr. Yong      | EOS Energy Enterprises                                      | Application Engineering Support for Technical Solutions in Battery Energy   | 50                                | \$7,168                      | \$1,084                   | \$8,252               |
| Wang, Dr. Yong      | Bennett Distribution Services Limited Liability Corporation | Bennett Distribution Services Operations Management and Warehouse Process Improvement   | 33                                | \$17,572                     | \$3,539                   | \$21,111              |
| Wang, Dr. Yong      | Bennett Distribution Services Limited Liability Corporation | Warehouse Operations Management and Analytics Research And Development  | 33                                | \$15,107                     | \$2,898                   | \$18,005              |
| Wang, Dr. Yong      | GE Grid Solutions   | Battery Performance Degradation Prediction and Market Bidding Optimization Using Artificial Intelligence, Machine Learning, and Stochastic Optimization | 50                                | \$23,170                     | \$4,933                   | \$28,102              |
| Wang, Dr. Yong      | Kennedy Valve Company                                       | Support Kennedy Valve in Electronic Information System Implementation and Powder Coating Process Improvement  | 25                                | \$7,275                      | \$1,111                   | \$8,386               |
| Wang, Dr. Zimo      | Kennedy Valve Company                                       | Support Kennedy Valve in Electronic Information System Implementation and Powder Coating Process Improvement  | 25                                | \$7,275                      | \$1,111                   | \$8,386               |
| Won, Dr. Daehan     | Lattice Semiconductor                                       | Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains   | 33                                | \$43                         | \$11                      | \$54                  |
| Won, Dr. Daehan     | Zebra Technologies Enterprise Corporation                   | Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing  | 20                                | \$8,661                      | \$1,908                   | \$10,568              |
| Won, Dr. Daehan     | Lattice Semiconductor                                       | Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains (AMD 1. 22-23)                          | 33                                | \$24,433                     | \$5,493                   | \$29,926              |
| Won, Dr. Daehan     | Koh Young Technology Incorporated                           | Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology                 | 33                                | \$4,522                      | \$1,268                   | \$5,790               |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Won, Dr. Daehan            | Koh Young Technology Incorporated         | Development of Self-Optimization and AI-based Diagnostics Modules in the Printed Circuit Board Assembly Process  | 33                                       | \$20,083                            | \$10,138                         | \$30,220                     |
| Won, Dr. Daehan            | Koh Young Technology Incorporated         | AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly  | 33                                       | \$14,961                            | \$7,218                          | \$22,179                     |
| Won, Dr. Daehan            | Best Buy Purchasing LLC                   | Supporting Supply Chain Strategy Decision Science to Drive Transformational Changes  | 33                                       | \$4,453                             | \$643                            | \$5,096                      |
| Won, Dr. Daehan            | Koh Young Technology Incorporated         | Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology: A Systematic Integration of Reflow and Dispensing Processes with PCB Assembly for Quality Enhancement | 33                                       | \$7,555                             | \$2,997                          | \$10,552                     |
| Won, Dr. Daehan            | Nano-Bio Materials Consortium             | Epifluidics for Stress Monitoring  | 30                                       | \$6,351                             | \$3,620                          | \$9,972                      |
| Won, Mr. Daehan            | National Science Foundation               | Capillary-Assisted Printing of Structured Colloidal Monolayers   | 25                                       | \$4,352                             | \$2,481                          | \$6,833                      |
| Yoon, Dr. Sangwon          | Raymond Leasing Corporation               | Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting AMD 1   | 33                                       | \$7,114                             | \$1,252                          | \$8,366                      |
| Yoon, Dr. Sangwon          | Lattice Semiconductor                     | Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains  | 33                                       | \$43                                | \$11                             | \$54                         |
| Yoon, Dr. Sangwon          | Zebra Technologies Enterprise Corporation | Simulation-based Business Intelligence and Analytics for Digital Transformation in Manufacturing   | 20                                       | \$8,661                             | \$1,908                          | \$10,568                     |
| Yoon, Dr. Sangwon          | Lattice Semiconductor                     | Interactive Data Management Platform to Drive Smart Manufacturing in Fabless Semiconductor Manufacturing Chains (AMD 1. 22-23)   | 33                                       | \$24,433                            | \$5,493                          | \$29,926                     |
| Yoon, Dr. Sangwon          | National Science Foundation               | Capillary-Assisted Printing of Structured Colloidal Monolayers   | 25                                       | \$4,352                             | \$2,481                          | \$6,833                      |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                                  | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|---|--|-------------------------------------|----------------------------------|------------------------------|
| Yoon, Dr. Sangwon          | Raymond Corporation   | Data Analytics for Process Evaluation and Daily Process Automation in Raymond Logistics                                     | 33                                       | \$5,175                             | \$1,345                          | \$6,520                      |
| Yoon, Dr. Sangwon          | Raymond Leasing Corporation                                 | Developing a Predictive Model of Used Equipment Fair Market Value to Optimize Residual Setting                              | 33                                       | \$7,840                             | \$2,038                          | \$9,878                      |
| Yoon, Dr. Sangwon          | RTSync Corporation  | Model Level Integrated Simulation Architecture for Collaborative Development Prime Contract Number HQ0860-22-C-7144         | 34                                       | \$14,318                            | \$2,817                          | \$17,135                     |
| Yoon, Dr. Sangwon          | Koh Young Technology Incorporated                           | Development of Self-Optimization and AI-based Diagnostics Modules in the Printed Circuit Board Assembly Process             | 33                                       | \$20,083                            | \$10,138                         | \$30,220                     |
| Yoon, Dr. Sangwon          | Raymond Corporation   | Inventory Optimization and Process Automation for Raymond Logistics   | 33                                       | \$6,749                             | \$1,187                          | \$7,936                      |
| Yoon, Dr. Sangwon          | Koh Young Technology Incorporated                           | AI-based System Integration for Process Enhancement in the Printed Circuit Board Assembly                                   | 33                                       | \$14,961                            | \$7,218                          | \$22,179                     |
| Yoon, Dr. Sangwon          | Kennedy Valve Company                                       | Support Kennedy Valve in Electronic Information System Implementation and Powder Coating Process Improvement                | 25                                       | \$7,275                             | \$1,111                          | \$8,386                      |
| Yoon, Dr. Sangwon          | Innovation Associates Doing Business As iA                  | Pharmacy System Design Validation and Improvement Through Data Analytics and Simulation Modeling                            | 33                                       | \$79,136                            | \$13,679                         | \$92,815                     |
| Yoon, Dr. Sangwon          | Innovation Associates Doing Business As iA                  | CFP Process Evaluation, Sortation System Improvement, and Conveyor Design Principle Study for Cost Reduction                | 25                                       | \$11,572                            | \$768                            | \$12,340                     |
| Yoon, Dr. Sangwon          | Innovation Associates Doing Business As iA                  | Development of a Virtual Environment for Pharmacy Automation Systems for Software Testing, Training, and Marketing Purposes | 33                                       | \$19,199                            | \$4,992                          | \$24,191                     |
| Yoon, Dr. Sangwon          | Bennett Distribution Services Limited Liability Corporation | Bennett Distribution Services Operations Management and Warehouse Process Improvement                                       | 33                                       | \$17,572                            | \$3,539                          | \$21,111                     |
| Yoon, Dr. Sangwon          | Bennett Distribution Services Limited Liability Corporation | Warehouse Operations Management and Analytics Research And Development  | 33                                       | \$15,107                            | \$2,898                          | \$18,005                     |

| <u>Investigator</u> | <u>Sponsor Name</u>               | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------|-----------------------------------|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Yoon, Dr. Sangwon   | Koh Young Technology Incorporated | Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology  | 33                                | \$4,522                      | \$1,268                   | \$5,790               |
| Yoon, Dr. Sangwon   | Koh Young Technology Incorporated | Development of Closed-Loop Control and Optimization Modules of the Printed Circuit Board Assembly Processes in Surface Mount Technology: A Systematic Integration of Reflow and Dispensing Processes with PCB Assembly for Quality Enhancement | 33                                | \$7,555                      | \$2,997                   | \$10,552              |

**Department Total: \$9,617,814**

**020 Watson School Deans Office**

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|----------------------|----------------------------------|--|-----|-----------|----------|-----------|
| Baique, Mr. Miguel C | National Science Foundation      | The State University of New York (SUNY) LSAMP: Meeting the Grand Challenge of Preparing Students for Successful Transition into STEM Majors and Beyond | 100 | \$18,919  | \$477    | \$19,396  |
| Ghose, Dr. Kanad     | University of Texas at Arlington | Phase II IUCRC University of Texas at Arlington Center for Energy Smart Electronic Systems - UTA NSF Award 1738811                                     | 50  | \$3,042   | \$1,734  | \$4,776   |
| Ghose, Dr. Kanad     | Villanova University             | PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877 FleischerBinghamton   | 50  | \$6,056   | \$3,452  | \$9,508   |
| Ghose, Dr. Kanad     | National Science Foundation      | Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)  | 50  | \$15,873  | \$9,048  | \$24,921  |
| Ghose, Dr. Kanad     | Multiple Sponsors                | Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems   | 50  | \$16,667  | \$0      | \$16,667  |
| Ghose, Dr. Kanad     | Multiple Sponsors                | Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems   | 50  | \$255,351 | \$25,535 | \$280,886 |
| Ghose, Dr. Kanad     | Multiple Sponsors                | Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems   | 50  | \$29,167  | \$0      | \$29,167  |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>             | <u><i>Award Title</i></u>   | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|--|---|--|-------------------------------------|----------------------------------|------------------------------|
| Ghose, Dr. Kanad           | Bloomberg LP                           | Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2) | 50                                       | \$353                               | \$35                             | \$389                        |
| Ghose, Dr. Kanad           | Xilinx                                 | Xilinx I/UCRC Membership 2017-2022  | 50                                       | \$169                               | \$17                             | \$186                        |
| Gieskes, Mr. Koenraad E.   | NYS Education Department               | STEP 2021-2022  | 50                                       | \$9,139                             | \$582                            | \$9,722                      |
| Gieskes, Mr. Koenraad E.   | US Department of Education             | Binghamton University Upward Bound Math and Science   | 50                                       | \$5,278                             | \$422                            | \$5,700                      |
| Park, Dr. Seungbae         | SVMT Corp                              | Participating Membership in the IEEC 2022 Silicon Valley Materials Technology Corp.                 | 100                                      | (\$1,000)                           | (\$200)                          | (\$1,200)                    |
| Park, Dr. Seungbae         | Multiple Sponsors                      | Balances of Non-renewed IEEC Memberships  | 100                                      | \$1,031                             | \$206                            | \$1,237                      |
| Park, Dr. Seungbae         | NYS Department of Economic Development | NYS CAT Funding for 2021-2022   | 100                                      | \$279,295                           | \$23,826                         | \$303,122                    |
| Park, Dr. Seungbae         | Xilinx                                 | IEEC Center Membership Agreement 2017-2024  | 100                                      | \$47,462                            | \$9,492                          | \$56,954                     |
| Park, Dr. Seungbae         | NYS Department of Economic Development | Integrated Electronics Engineering Center (IEEC)  | 100                                      | \$505,283                           | \$70,923                         | \$576,206                    |
| Park, Dr. Seungbae         | Prismark Partners LLC                  | Prismark Partner's Full Membership in the IEEC  | 100                                      | \$15,750                            | \$3,150                          | \$18,900                     |
| Park, Dr. Seungbae         | R&D Altanova                           | IEEC Membership 2021-2023 R&D Altanova  | 100                                      | \$3,475                             | \$695                            | \$4,171                      |
| Park, Dr. Seungbae         | Snake Creek Lasers LLC                 | Snake Creek Lasers dba Advanced Photonic Sciences IEEC Membership                                   | 100                                      | \$3,984                             | \$797                            | \$4,780                      |



| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>                      | <u><i>Award Title</i></u>                                  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|---|--|--|-------------------------------------|----------------------------------|------------------------------|
| Park, Dr. Seungbae         | Unison Industries LLC                           | Unison's Participating Membership in the IEEC 2021-2022    | 100                                      | \$2,338                             | \$468                            | \$2,806                      |
| Park, Dr. Seungbae         | Universal Instruments Corporation               | Universal Instruments Annual Participating Membership IEEC | 100                                      | \$1,644                             | \$329                            | \$1,973                      |
| Park, Dr. Seungbae         | Menlo Microsystems Incorporated                 | Menlo Microsystems Participating Membership In the IEEC    | 100                                      | \$4,182                             | \$836                            | \$5,018                      |
| Park, Dr. Seungbae         | Dupont Speciality Products USA LLC              | E.I. du Pont IEEC Membership                               | 100                                      | \$1,804                             | \$361                            | \$2,165                      |
| Park, Dr. Seungbae         | Sanmina Corporation                             | 2018-2023 Sanmina IEEC Membership                          | 100                                      | \$3,388                             | \$678                            | \$4,065                      |
| Park, Dr. Seungbae         | Applied Materials                               | Applied Materials IEEC Participating Membership 2022-2023  | 100                                      | \$156                               | \$31                             | \$187                        |
| Park, Dr. Seungbae         | IBM Corporation                                 | IEEC Membership- IBM 2018-2023                             | 100                                      | \$42,691                            | \$8,538                          | \$51,229                     |
| Park, Dr. Seungbae         | Lockheed Martin Corporation                     | Lockheed Martin's IEEC Membership                          | 100                                      | \$1,849                             | \$370                            | \$2,218                      |
| Park, Dr. Seungbae         | Advanced Semiconductor Engineering Incorporated | ASE's Membership in the IEEC, 2015-2023                    | 100                                      | \$312                               | \$62                             | \$374                        |
| Park, Dr. Seungbae         | Analog Devices, Incorporated                    | Analog Devices Full Membership in the IEEC 2019-2023       | 100                                      | \$1,493                             | \$299                            | \$1,791                      |
| Park, Dr. Seungbae         | AVO Photonics                                   | Avo Photonics Participating Membership in IEEC 2021-2022   | 100                                      | \$6,936                             | \$1,387                          | \$8,323                      |
| Park, Dr. Seungbae         | BAE Systems Controls Incorporated               | BAE Full IEEC Membership 2021-2023                         | 100                                      | \$12,337                            | \$2,467                          | \$14,804                     |

| <u><i>Investigator</i></u> | <u><i>Sponsor Name</i></u>             | <u><i>Award Title</i></u>  | <u><i>% Credited to Investigator</i></u> | <u><i>Direct Costs Expended</i></u> | <u><i>F &amp; A Expended</i></u> | <u><i>Total Expended</i></u> |
|----------------------------|--|--|--|-------------------------------------|----------------------------------|------------------------------|
| Park, Dr. Seungbae         | Corning Incorporated                   | IEEC Membership 2015-2023 - Corning Inc.   | 100                                      | \$77,815                            | \$15,563                         | \$93,378                     |
| Park, Dr. Seungbae         | Excelitas Technologies                 | IEEC Membership Excelitas 2021-2023  | 100                                      | \$4,455                             | \$891                            | \$5,346                      |
| Park, Dr. Seungbae         | Juniper Networks Incorporated          | Juniper Network Membership in the IEEC 2021-2023   | 100                                      | \$2,559                             | \$512                            | \$3,071                      |
| Park, Dr. Seungbae         | Koh Young Technology Incorporated      | Integrated Electronics Engineering Center Membership 2018-2024   | 100                                      | \$30,207                            | \$6,041                          | \$36,249                     |
| Park, Dr. Seungbae         | Amphenol Aerospace Operations          | Amphenol's Participating Membership in the IEEC 2021-2023  | 100                                      | \$1,730                             | \$346                            | \$2,075                      |
| Sammakia, Dr. Bahgat G     | Bloomberg LP                           | Industry/University Cooperative Research Center in Energy-Smart Electronic Systems Membership (ES2)                | 50                                       | \$353                               | \$35                             | \$389                        |
| Sammakia, Dr. Bahgat G     | NYS Department of Economic Development | COE 2022-2023  | 100                                      | \$590,898                           | \$80,454                         | \$671,353                    |
| Sammakia, Dr. Bahgat G     | Xilinx                                 | Xilinx I/UCRC Membership 2017-2022   | 50                                       | \$169                               | \$17                             | \$186                        |
| Sammakia, Dr. Bahgat G     | Villanova University                   | PHASE II- IUCRC Center for Energy-Smart Electronic Systems - Subaward 525877<br>FleischerBinghamton                | 50                                       | \$6,056                             | \$3,452                          | \$9,508                      |
| Sammakia, Dr. Bahgat G     | University of Texas at Arlington       | Phase II IUCRC University of Texas at Arlington Center for Energy Smart Electronic Systems - UTA NSF Award 1738811 | 50                                       | \$3,042                             | \$1,734                          | \$4,776                      |
| Sammakia, Dr. Bahgat G     | NYS Department of Economic Development | COE 2021-2022  | 100                                      | \$95,256                            | \$13,210                         | \$108,466                    |
| Sammakia, Dr. Bahgat G     | National Science Foundation            | Phase II IUCRC Binghamton University Center for Energy-Smart Electronic Systems (ES2)                              | 50                                       | \$15,873                            | \$9,048                          | \$24,921                     |

| <u>Investigator</u>       | <u>Sponsor Name</u> | <u>Award Title</u>   | <u>% Credited to Investigator</u> | <u>Direct Costs Expended</u> | <u>F &amp; A Expended</u> | <u>Total Expended</u> |
|---------------------------|---------------------|--|-----------------------------------|------------------------------|---------------------------|-----------------------|
| Sammakia, Dr. Bahgat G    | Multiple Sponsors   | Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems | 50                                | \$29,167                     | \$0                       | \$29,167              |
| Sammakia, Dr. Bahgat G    | Multiple Sponsors   | Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems | 50                                | \$16,667                     | \$0                       | \$16,667              |
| Sammakia, Dr. Bahgat G    | Multiple Sponsors   | Memberships for NSF Industry/University Cooperative Research Center in Energy-Smart Electronic systems | 50                                | \$255,351                    | \$25,535                  | \$280,886             |
| Srihari, Dr. Krishnaswami | Multiple Sponsors   | Income from Watson School Continuing Education Miscellaneous Activities                                | 100                               | \$48,349                     | \$12,087                  | \$60,436              |
| Srihari, Dr. Krishnaswami | Multiple Sponsors   | Income Received Through Watson School Continuing Education for SSIE Activities                         | 100                               | \$29,501                     | \$7,375                   | \$36,876              |

**Department Total: \$2,844,192**

|               |                     |
|---------------|---------------------|
| <b>Total:</b> | <b>\$49,311,705</b> |
|---------------|---------------------|